

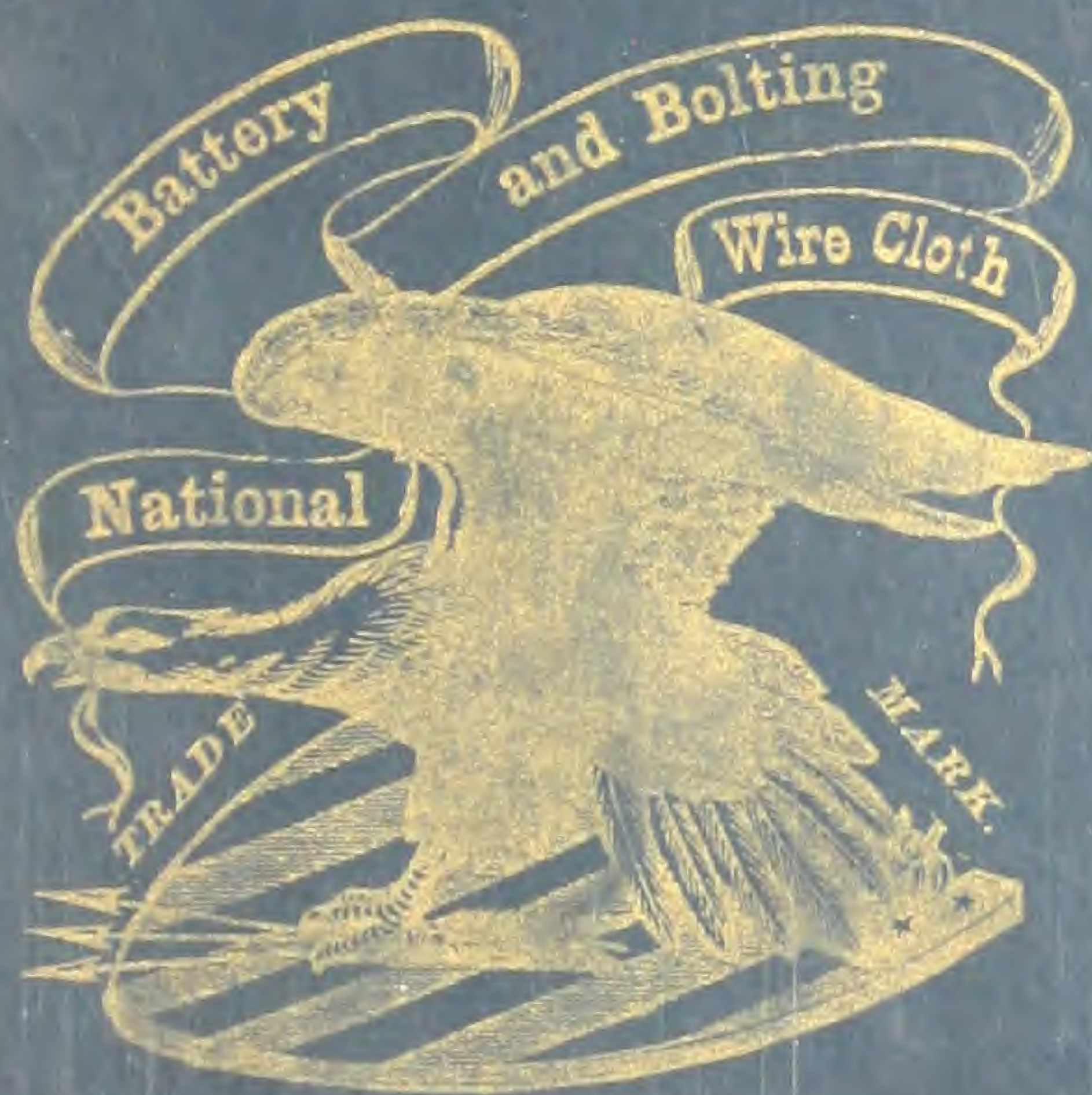
976

CATALOGUE No. 59.

"NATIONAL WIRE AND LANTERN WORKS."



HOWARD & MORSE,



[Registered October 8th, 1878.]

WAREHOUSE:

No. 45 FULTON STREET,

NEW YORK CITY,

F. & M. Institute
Philadelphia



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TERMS, ETC.

All bills not paid during the month following the purchase, will be drawn for at two days' sight. When a longer time is agreed upon, interest must in all instances be added from date, (or average date) of invoice.

All Prices subject to the market changes without notice.

When ordering Wire Cloth, be particular to give the width, length and size of Wire, or grade wanted, as we cannot exchange it after being cut from the roll.

Strangers or persons not engaged in regular business must give City reference or send remittance when ordering.

No goods will be sent by Express C. O. D., unless a remittance of not less than 50 per cent. is received before shipment.

No goods made to order for strangers until a deposit of 50 per cent. has been made.

Package and Cartage will in all instances be charged at cost.

HOWARD & MORSE.

"NATIONAL WIRE AND LANTERN WORKS."

(ESTABLISHED 1856.)

Warehouse, 45 FULTON ST., NEW YORK.

MANUFACTORY:

Nos. 1197, 1199, 1201, 1203, 1205, 1207, 1209 & 1211 DeKalb Ave.,

BROOKLYN, N. Y.

HOWARD & MORSE,

MANUFACTURERS OF

Steel, Iron, Brass and Copper Wire Cloth

For Every Purpose,

RIDDLES, COAL, SAND AND ORE SCREENS,

Wire Window Guards,

OFFICE RAILING,

Farm, Lawn, and Poultry Fencing,

ORNAMENTAL GARDEN WORK,

—AND—

General Supplies of Wire Necessities

—FOR—

MILLS,

OFFICES,

MINES,

STORES,

FOUNDRIES,

LAWNS,

RAILROADS,

FARMS,

BLAST FURNACES, HOUSEHOLDS,

EVERYWHERE.

[AHHG.]

TO THE TRADE AND CONSUMERS.

We offer this Catalogue [No. 59] to the trade and consumers of **Wire Supplies** in the various manufacturing industries as a valuable compendium of reference, and a guide for selection.

Our experience as manufacturers, extending over a period of nearly *a third of a century*, the immense quantity, quality and diversified products of our Works during that time, and the universal reputation of excellence which our goods enjoy wherever used, may be accepted as our best qualification as a guide.

Wire Cloth will be found comprehensively and exhaustively treated in its many applications.

Wire Work of an ornamental and useful character for the Garden, Building, Bank, Office, Household, Farm, Factory, Asylum, etc., is delineated and described as plainly as the ever-variable conformation of the character of wire permits, and may, perhaps, offer suggestions for the accomplishment of certain objects not clearly defined in the mind of buyers.

Wire and Iron supplies, for Foundries, Blast Furnaces, Machine Shops, Mills, Mines, Gas and Water Works, are comprehensively arranged for facility of selection.

Fencing and Railings, Stable Fixtures, Lanterns, etc., are attractively arranged in their several divisions.

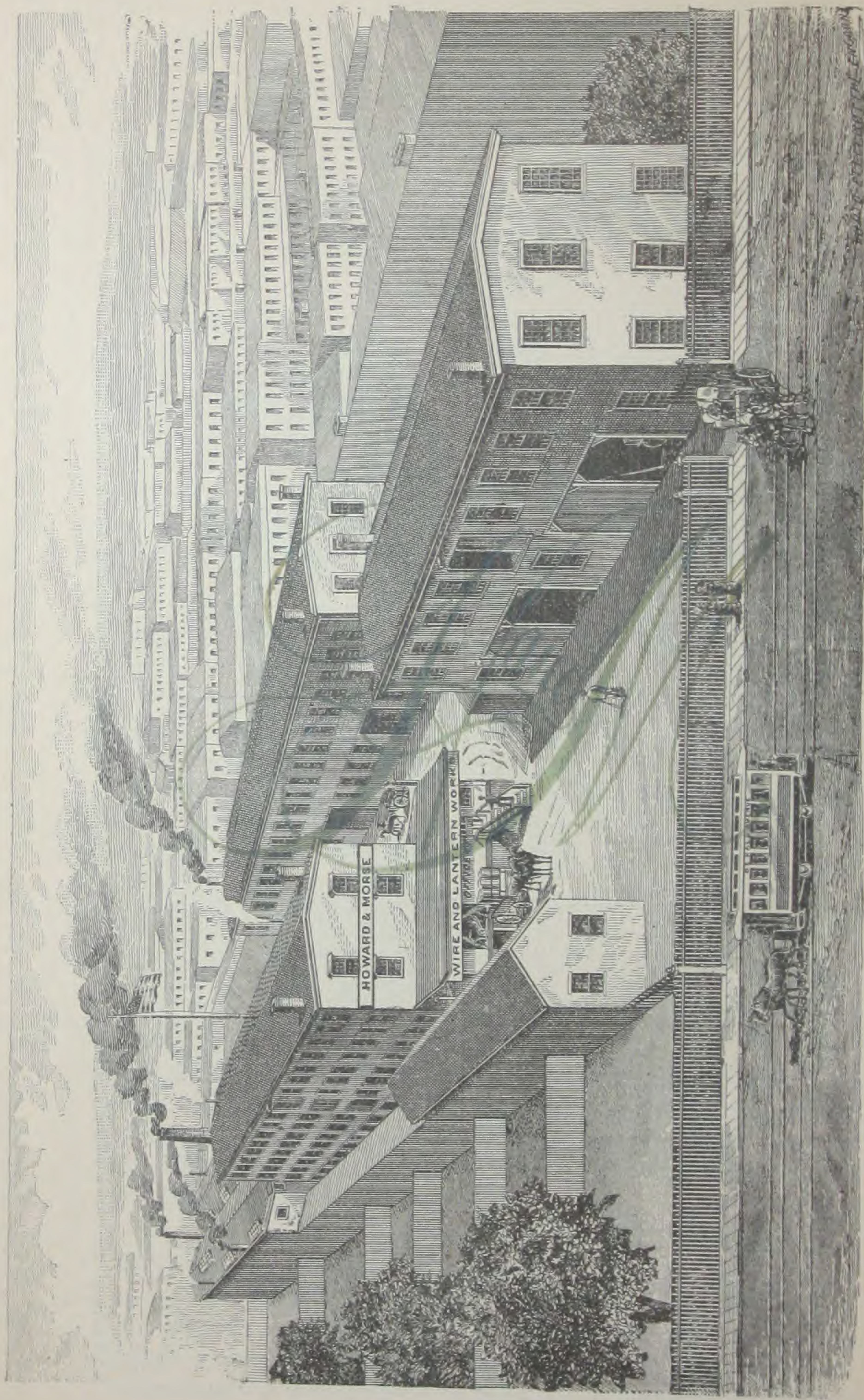
The production of the articles mentioned is effected in their various departments by special tools and machinery, designed by us and built upon our own premises, our facilities being equal to the attainment of anything within the advanced state of the art, applicable to our special trade.

The application of powerful and delicately constructed machinery, the systematic and economical arrangement of motive power under competent and intelligent heads of departments, the employment of the most skilled workmen and the best stock, with the entire system under the direct and constant supervision of our Mr. Howard, with a practical experience of over 40 years, contribute to the production of a class of work unequalled by any house in the trade.

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Manufactory: Nos. 1197, 1199, 1201, 1203, 1205, 1207, 1209 & 1211 DeKalb Avenue, Brooklyn, N. Y.

HOWARD & MORSE,

MANUFACTURERS OF

BRASS, COPPER & IRON WIRE CLOTH,

WIRE WORK, WIRE FENCE, RAILING & GUARDS

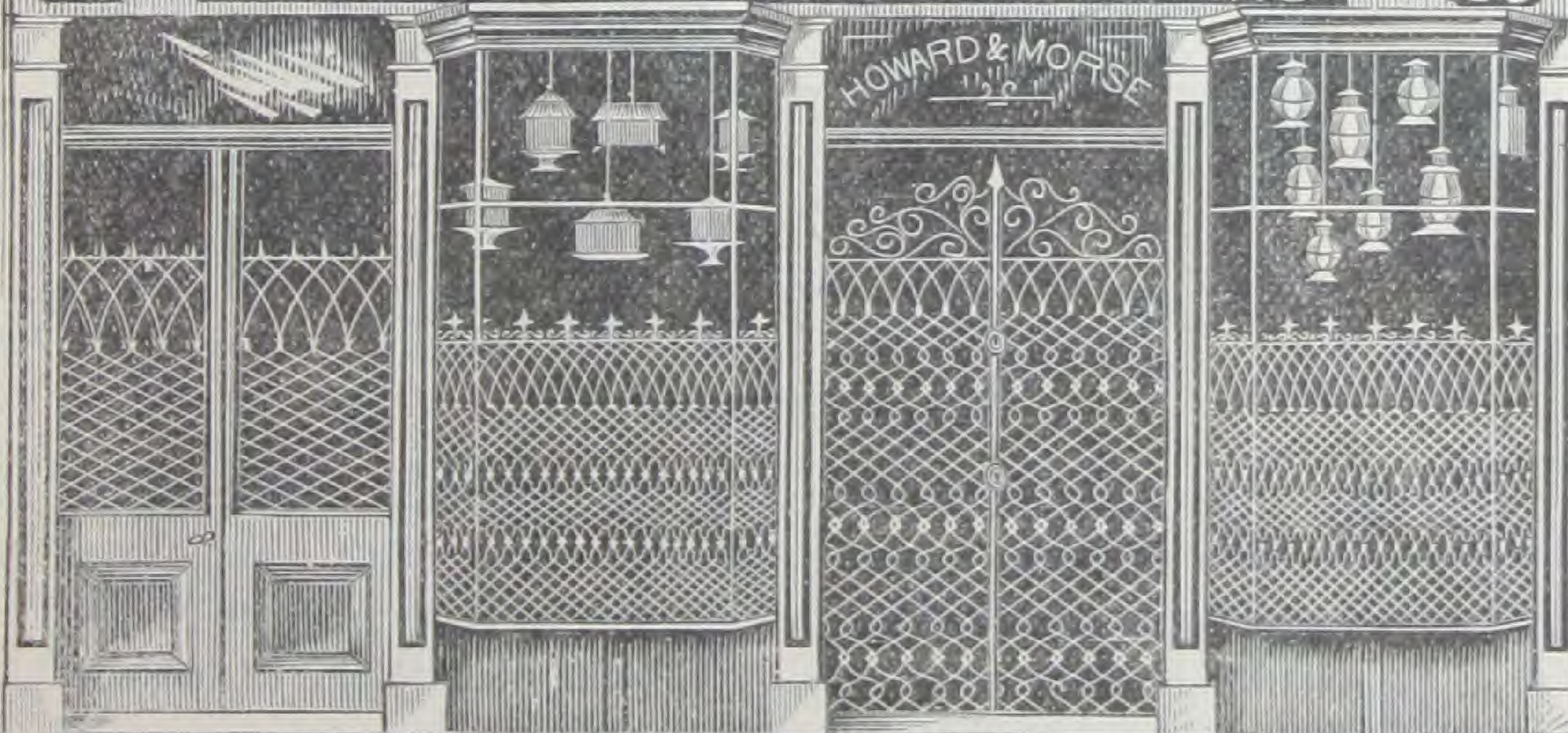


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SHIP AND RAIL ROAD LANTERNS.

45

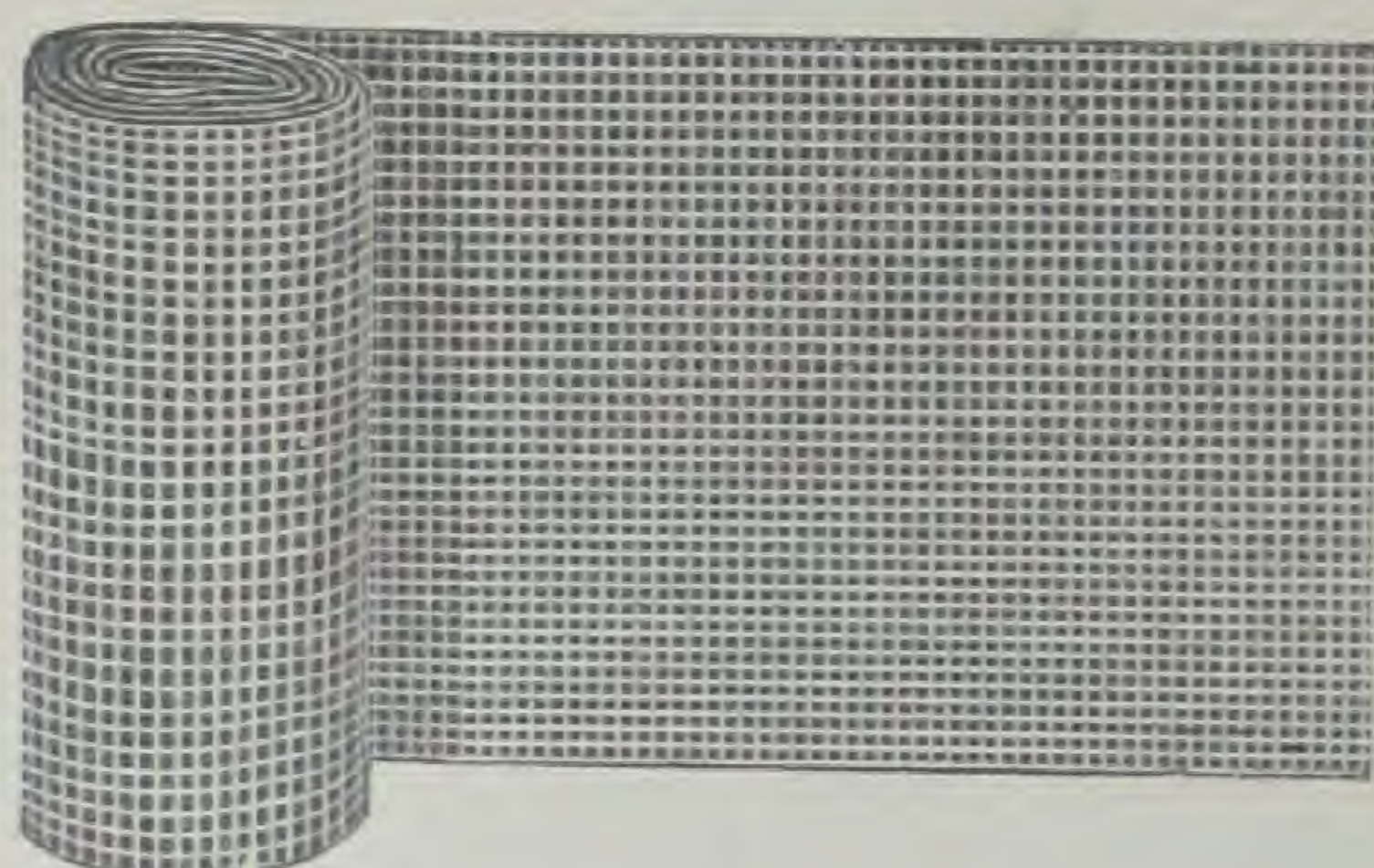
HOWARD & MORSE
112 N. 2ND ST.



WATERS-SOW

New York Warehouse, 45 Fulton Street.

WIRE CLOTH.



The earliest mention of the process of sieving occurs in the Bible in the following passages :

ISAIAH xxx, 28. * * * "To sift the nations with a sieve of vanity."
 AMOS ix, 9. * * * "Like as corn is sifted in a sieve."
 LUKE xxii, 31. * * * "That He may sift you as wheat."

These allusions employed in a figurative sense, imply that the sieve was a familiar object and applicable for illustration.

From authenticated records, we learn that the earliest sieves were made of rushes or papyrus. These were succeeded by sieves made of horse-hair and silk, which for certain purposes remain in service to the present day.

Wire seems to have been first made by slitting sheets of iron and hammering round, in Augsburg, Bavaria, in the year 1351. Its ready adaptability to the weaving process, probably shortly afterwards led to its introduction as an open fabric for sieving or screening.

We have before us a piece of cardboard issued in 1699 by Thomas Howard, of Manchester, England, an ancestor of our senior partner, which reads :

"T. HOWARD,"
 "WIRE WORKER,"
 "MANCHESTER,"

"Begg leave to acquaint the Public that he has established a Wire Manu-"
 "factory for making Wire Boulting Machines for dressing flour, Wire"
 "Webb for repairing them and Brushes, likewise all kinds of Wire Work"
 "made and sold wholesale and retail. English Wire Webb in sheets 4"
 "feet 1 inch long, 9 inches broad."

(Here follow numbers and prices.)

"Boulting Machines of the newest and finest construction and of the"
 "best plan, which will be sold at moderate and reasonable Prices for"
 "Ready Money only."

Its early uses must have been confined to absolute necessities in segregation of the particles of food, etc. During the last three or four decades, many industries in their emulation to produce the best article of food or other substance which was calculated in point of purity to attract purchasers, have appreciated the value and required the use of Wire Cloth, and thus it has been brought into prominence as an important factor to secure best results. This in turn animated the manufacturers of Wire Cloth to meet the extreme niceties of demand, by the agency of special devices in small tools and machinery, and the training or employment of skilled labor, etc., for the purpose.

By these means and the great variation of accomplishment in mesh, gauge, metal, etc., Wire Cloth has become almost universal in uses for Screening, Scouring, Drying, Filtering, Cooling or Heating services in wet and dry processes in Mills, Mines, Laboratories; in fact, fully three-fourths of the manufacturing industries of the country use it in the elementary or advanced stages of their processes.

Modesty counsels silence, but pride and candor compel us to admit what large consumers know, that as a firm manufacturing for nearly a third of a century, we have contributed more to these results than any other house in the country.



WIRE CLOTH.

OBSERVATIONS.

TO SECURE A COMPLETE UNDERSTANDING OF THE BUYERS' WANTS.

No less than 100 running feet shall be considered a roll.

Space signifies the actual opening between the rods or wires and is usually expressed in fractions of an inch.

Mesh signifies the distance from centre to centre of wire per *lineal* inch, thus: No. 10 Mesh implies 10 meshes to the lineal inch from centre to centre of wires, or 100 meshes to the *square* inch.

Wire Cloth, *when cut in accordance with orders* received, cannot be returned or exchanged by the purchaser under any circumstances.

In all cases when ordering, explicitly state the metal, width, length, mesh, and where possible the size of wire. If unfamiliar with gauges as expressed in numerals, the table on page 11, or the illustrations upon page 12, will be found of assistance. We also refer to the many cuts drawn to gauge, showing the full size of wire and mesh in Wire Cloth.

THE STANDARD GAUGES

— ARE —

Worcester Gauge for Iron or Steel Wire Cloth,

Old English Gauge for Brass or Copper Wire Cloth.

ADOPTED BY

THE WIRE CLOTH MANUFACTURERS' ASSOCIATION,

OCTOBER 26, 1882.



















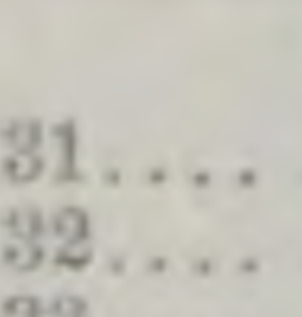

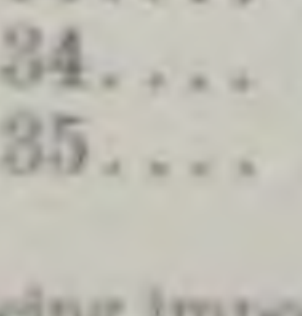
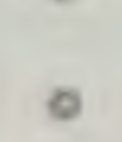

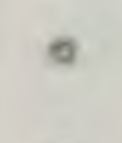





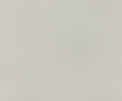
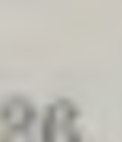
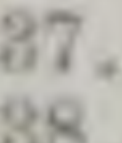
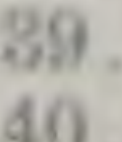
*Table showing the difference between the Worcester and
Old English Wire Gauges:*

WORCESTER GAUGE, USED FOR ALL <u>Iron or Steel Wire Cloth.</u>			OLD ENGLISH GAUGE, USED FOR ALL <u>Brass or Copper Wire Cloth.</u>		
Gauge No.	0000	.393 of an Inch.	Gauge No.	0000	.454 of an Inch.
"	000	.362	"	000	.425
"	00	.331	"	00	.380
"	0	.306	"	0	.340
"	1	.283	"	1	.300
"	2	.263	"	2	.284
"	3	.244	"	3	.259
"	4	.225	"	4	.283
"	5	.207	"	5	.220
"	6	.192	"	6	.203
"	7	.177	"	7	.180
"	8	.162	"	8	.165
"	9	.148	"	9	.148
"	10	.135	"	10	.134
"	11	.120	"	11	.121
"	12	.105	"	12	.109
"	13	.092	"	13	.095
"	14	.080	"	14	.088
"	15	.072	"	15	.072
"	16	.063	"	16	.065
"	17	.054	"	17	.053
"	18	.047	"	18	.049
"	19	.041	"	19	.040
"	20	.035	"	20	.035
"	21	.032	"	21	.0315
"	22	.023	"	22	.0295
"	23	.025	"	23	.027
"	24	.028	"	24	.025
"	25	.020	"	25	.023
"	26	.018	"	26	.0205
"	27	.017	"	27	.01875
"	28	.016	"	28	.0165
"	29	.015	"	29	.0155
"	30	.014	"	30	.01375
"	31	.013	"	31	.01225
"	32	.012	"	32	.01125
"	33	.011	"	33	.01025
"	34	.010	"	34	.0095
"	35	.0095	"	35	.009
"	36	.009	"	36	.0075
"	37	.0085	"	37	.0065
"	38	.008	"	38	.00575
"	39	.0075	"	39	.005
"	40	.00725	"	40	.0045

TABLE

Showing the full sizes, diameter in decimals of an inch, and the number of feet in one pound of each gauge IRON or STEEL WIRE.

The Worcester Gauge used for all Iron or Steel Wire Cloth.

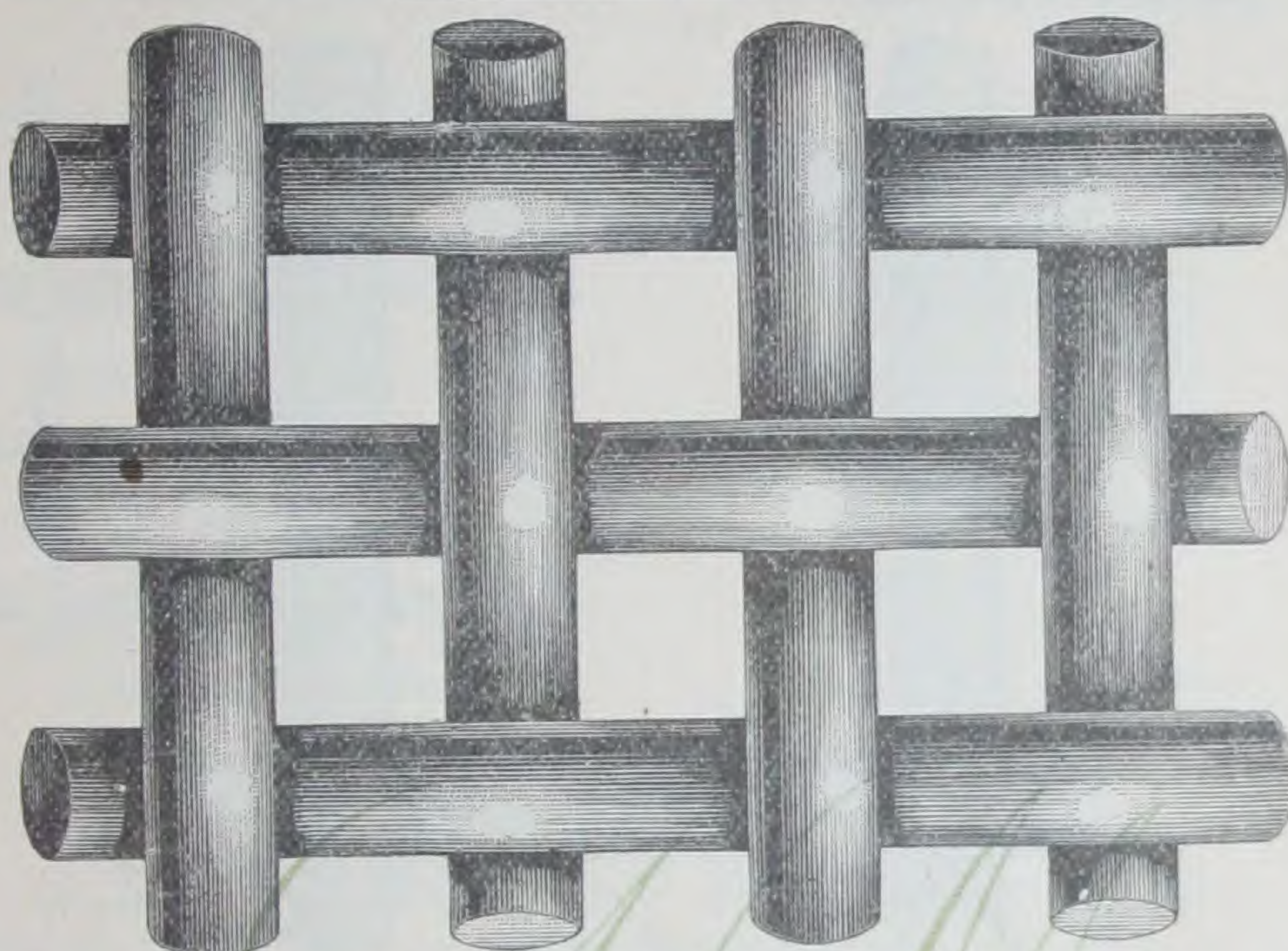
No.	Full Size of the Wire.	Dec's of Inch.	Feet in a Pound.	No.	Full Size of the Wire.	Dec's of Inch.	Feet in a Pound.
000		.362	2.873	10		.135	20.698
00		.331	3.444	11		.120	26.174
0		.306	3.619	12		.105	34.254
1		.283	4.698	13		.092	44.655
2		.263	5.444	14		.080	59.174
3		.244	6.333	15		.072	72.984
4		.225	7.460	16		.063	95.396
5		.207	8.809	17		.054	129.873
6		.192	10.270	18		.047	172.401
7		.177	12.047	19		.040	222.222
8		.162	14.365	20		.035	301.249
9		.148	17.238	21		.030	370.036
				22		.026	476.190
				23		.022	640.74
				24		.020	879.03
				25		.017	1189.71
				26		.015	1485.62
				27		.014	1872.71
				28		.012	2361.42
				29		.011	2978.91
				30		.010	3754.83

No. 31.... .013 of an inch diameter.
 " 32.... .012 " "
 " 33.... .011 " "
 " 34.... .010 " "
 " 35.... .0095 " "

No. 26.... .009 of an inch diameter.
 " 27.... .0085 " "
 " 28.... .008 " "
 " 29.... .0075 " "
 " 30.... .00725 " "

It being impossible to show to a nicety the size of wire by a drawing from No. 20 to No. 40 gauge, we refer to the decimals of such gauges.

EXTRA HEAVY SCREEN CLOTH.



$\frac{1}{2}$ inch Space Screen, $\frac{3}{8}$ inch Rod.

Heavy Screen Cloth is always made to order, and as its cost depends entirely upon the grade and quantity required, we are unable to catalogue prices for it. Prices furnished upon application.

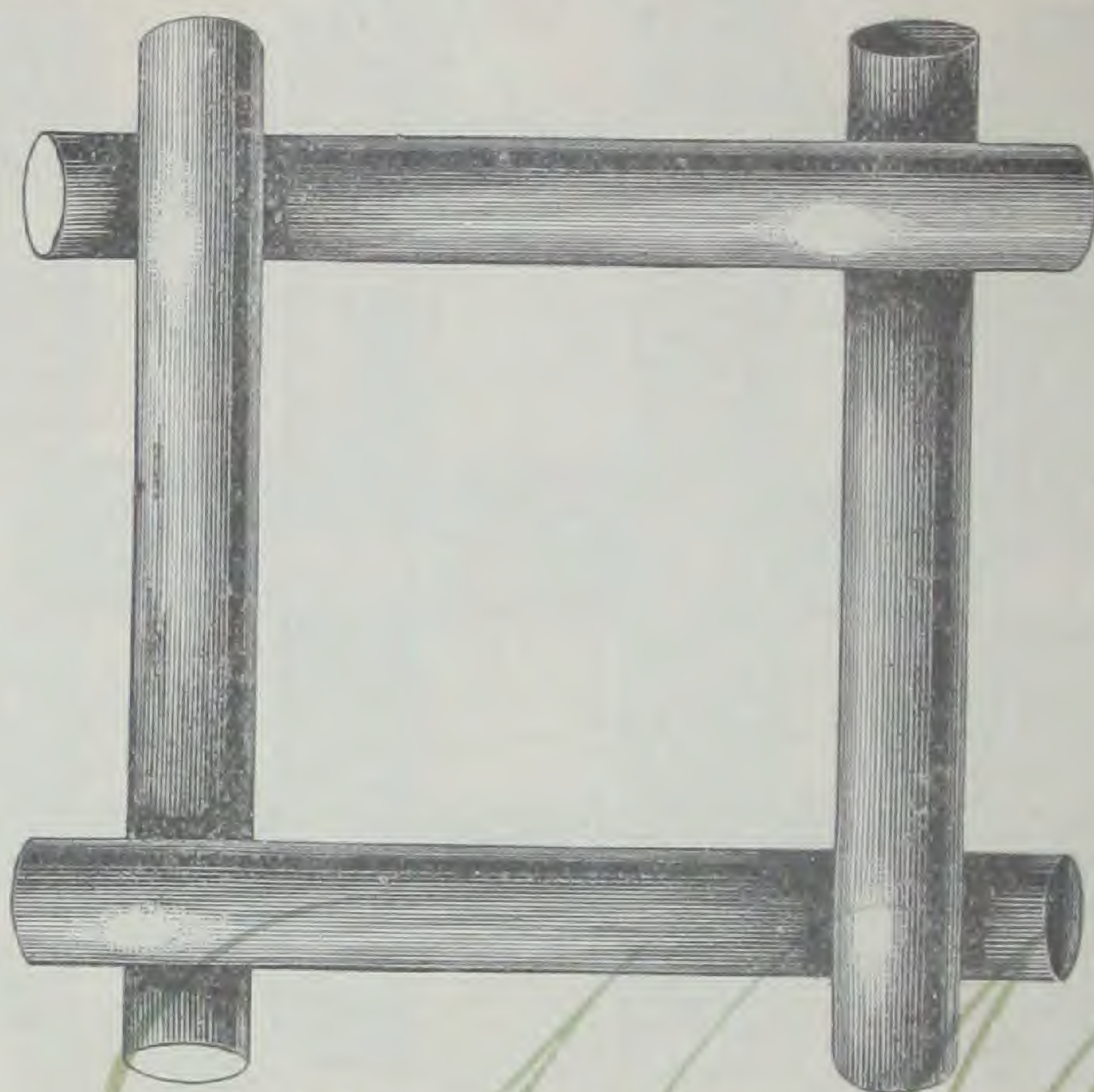
MEMORANDUM OF GRADE.

The mesh in Screen Cloth means the space between the wires.

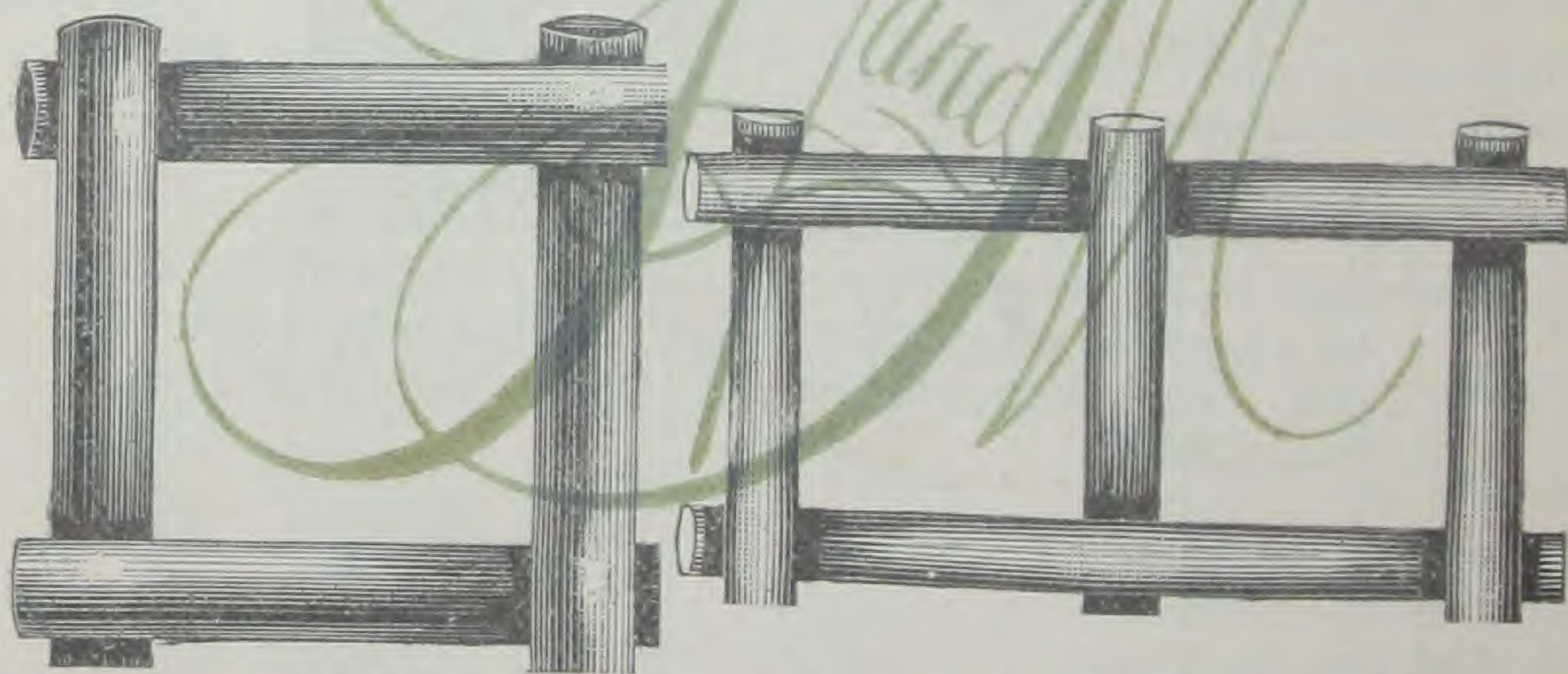
No Length less than 100 feet shall be considered a Roll.

1 inch space between wires, $\frac{11}{16}$ inch diameter Rods.

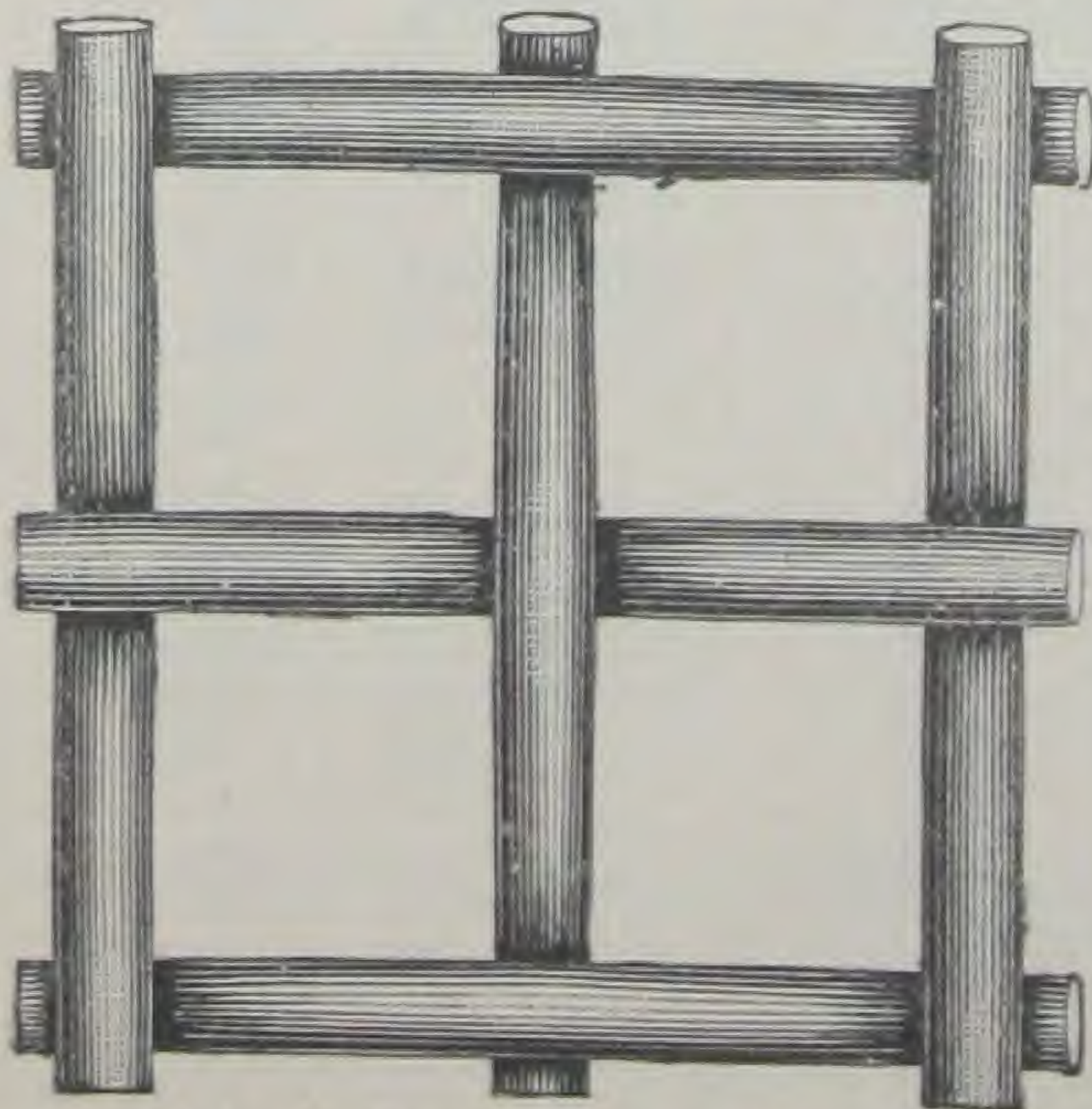
1	inch	space	between	wires,	$\frac{11}{16}$	inch	diameter	Rods.
1	"	"	"	"	$\frac{5}{8}$	"	"	"
1	"	"	"	"	$\frac{1}{2}$	"	"	"
1	"	"	"	"	$\frac{3}{8}$	"	"	"
1	"	"	"	"	$\frac{1}{4}$	"	"	"
$\frac{3}{4}$	"	"	"	"	9-16	"	"	"
$\frac{3}{4}$	"	"	"	"	$\frac{1}{2}$	"	"	"
$\frac{3}{4}$	"	"	"	"	$\frac{3}{8}$	"	"	"
$\frac{3}{4}$	"	"	"	"	$\frac{1}{4}$	"	"	"
$\frac{5}{8}$	"	"	"	"	$\frac{1}{2}$	"	"	"
$\frac{5}{8}$	"	"	"	"	$\frac{3}{8}$	"	"	"
$\frac{5}{8}$	"	"	"	"	$\frac{1}{4}$	"	"	"
$\frac{5}{8}$	"	"	"	"	No. 5	"	"	Wire.
$\frac{5}{8}$	"	"	"	"	" 6	"	"	"
$\frac{5}{8}$	"	"	"	"	" 7	"	"	"
$\frac{1}{2}$	"	"	"	"	$\frac{3}{8}$	"	"	Rods.
$\frac{1}{2}$	"	"	"	"	$\frac{1}{4}$	"	"	"
$\frac{1}{2}$	"	"	"	"	No. 5	"	"	Wire.
$\frac{1}{2}$	"	"	"	"	" 6	"	"	"
$\frac{1}{2}$	"	"	"	"	" 7	"	"	"
$\frac{1}{2}$	"	"	"	"	" 8	"	"	"
$\frac{3}{8}$	"	"	"	"	5-16	"	"	Rods.
$\frac{3}{8}$	"	"	"	"	$\frac{1}{4}$	"	"	"
$\frac{3}{8}$	"	"	"	"	No. 5	"	"	Wire.
$\frac{3}{8}$	"	"	"	"	" 6	"	"	"
$\frac{3}{8}$	"	"	"	"	" 7	"	"	"
$\frac{3}{8}$	"	"	"	"	" 8	"	"	"
$\frac{1}{4}$	"	"	"	"	" 6	"	"	"
$\frac{1}{4}$	"	"	"	"	" 7	"	"	"
$\frac{1}{4}$	"	"	"	"	" 8	"	"	"
$\frac{1}{4}$	"	"	"	"	" 9	"	"	"
$\frac{1}{4}$	"	"	"	"	" 10	"	"	"
$\frac{1}{4}$	"	"	"	"	" 11	"	"	"

COAL-SCREEN GRADE OF SCREEN CLOTH.

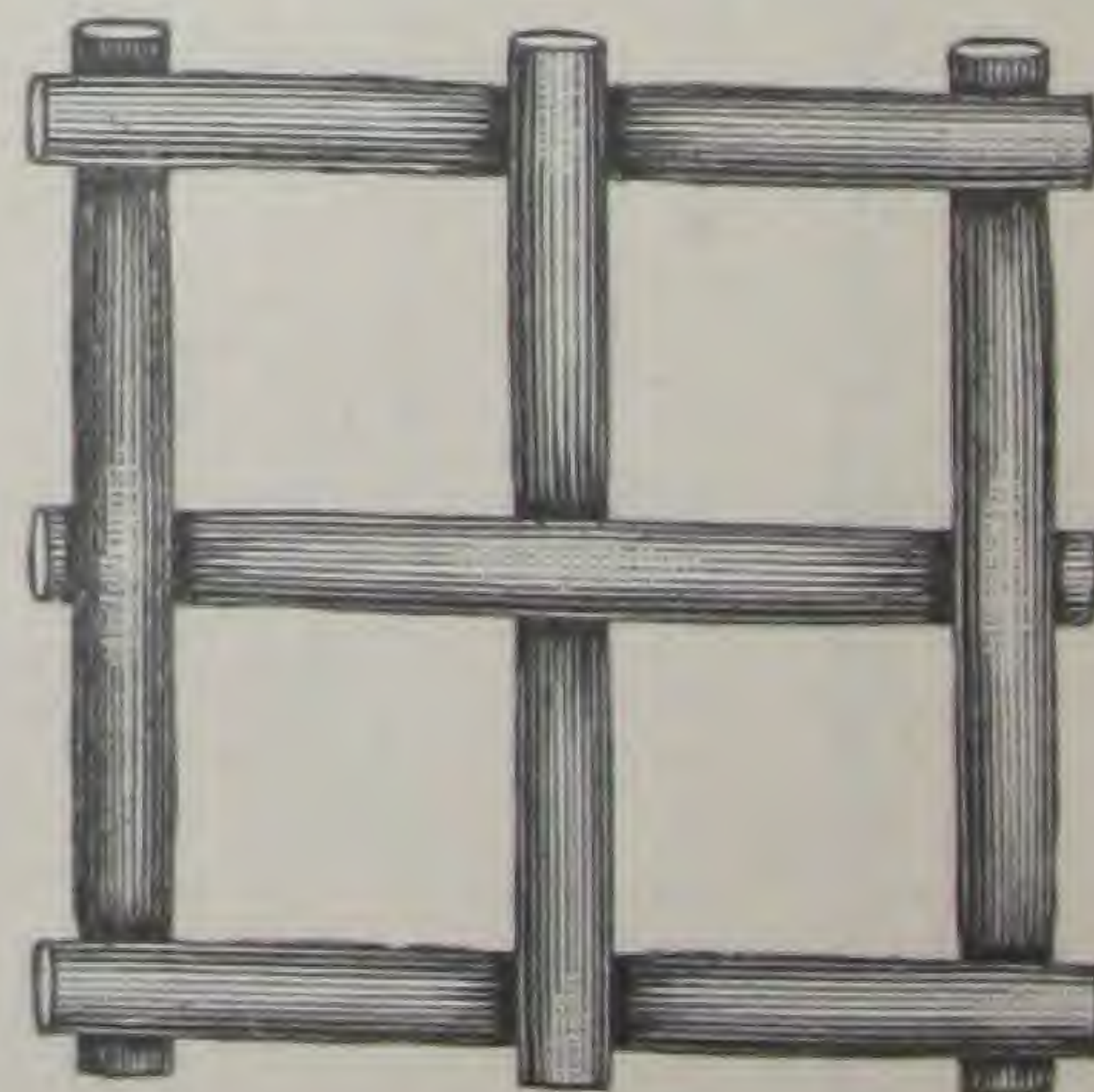
$1\frac{1}{2}$ inch Space, $\frac{5}{16}$ inch diameter Rods.



1 inch Space, $\frac{1}{4}$ inch diameter Rods. $\frac{3}{4}$ inch Space, $\frac{3}{16}$ inch diameter Wire.

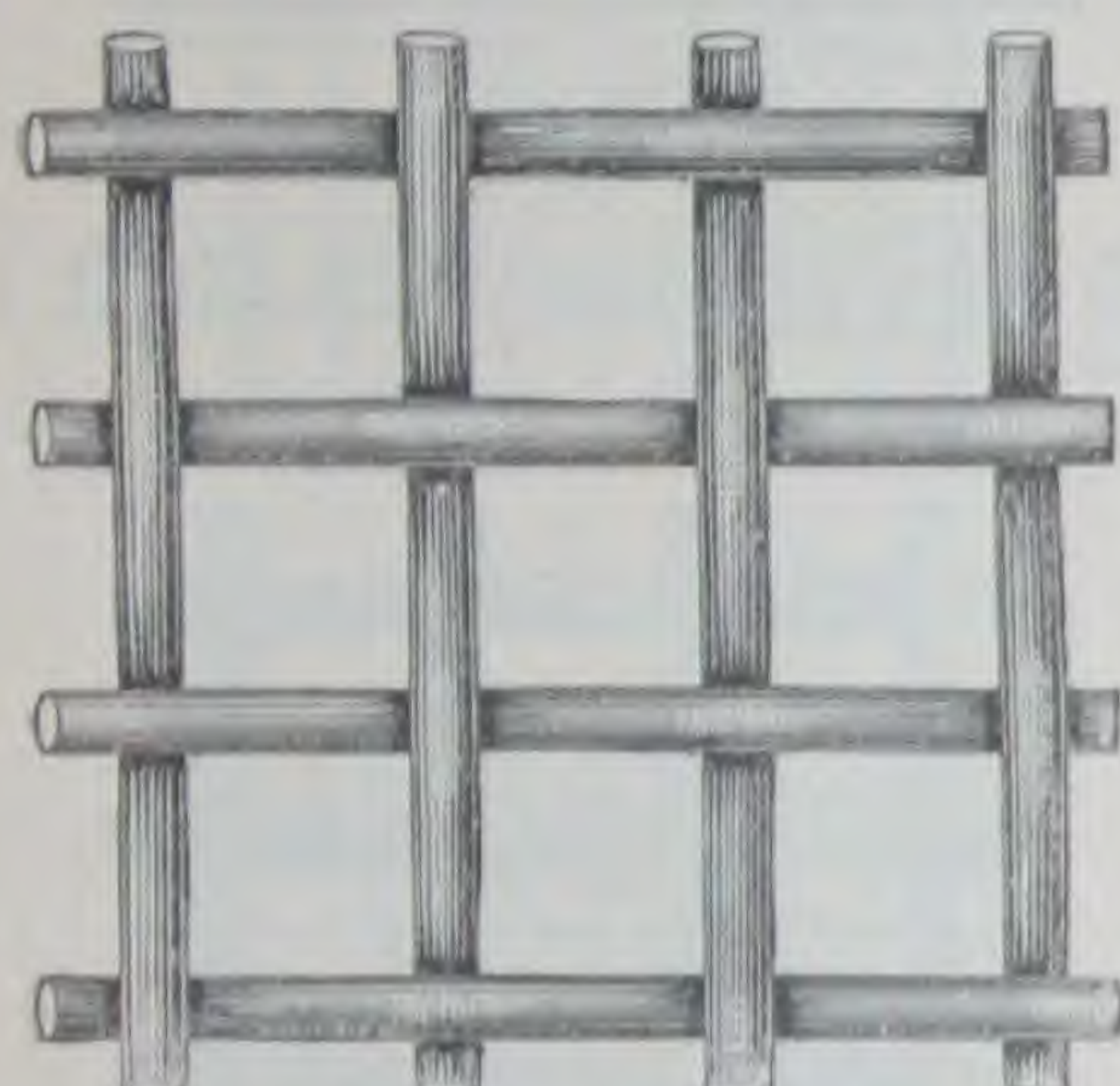


$\frac{5}{8}$ inch Space, No. 8 Wire.

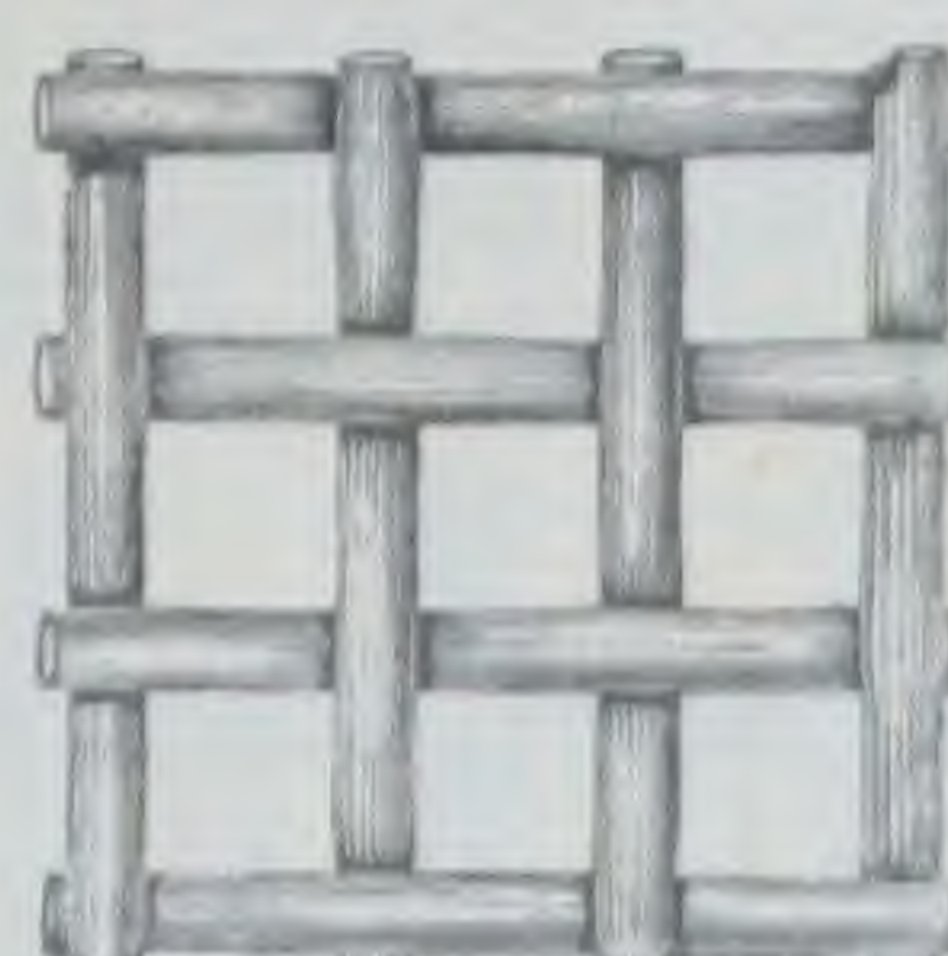


$\frac{1}{2}$ inch Space, No. 10 Wire.

Coal-Screen Grade of Screen Cloth.—Continued.



$\frac{3}{8}$ inch Space, No. 11 Wire.



$\frac{1}{4}$ inch Space, No. 13 Wire.

In the several illustrations upon the preceding page we show the full size of rod or wire and the space or opening in the respective cuts. This grade of Screen Cloth is the regular grade from which Coal Screens used in Coal Yards, Factories, Hotels and Public Institutions are made. For Mining and heavier purposes, the grades named upon page 13 are used.

Price-List of Regular Coal Screen Grade of Screen Cloth.

STEEL OR IRON.

The mesh in Screen Cloth means the space between the wires.

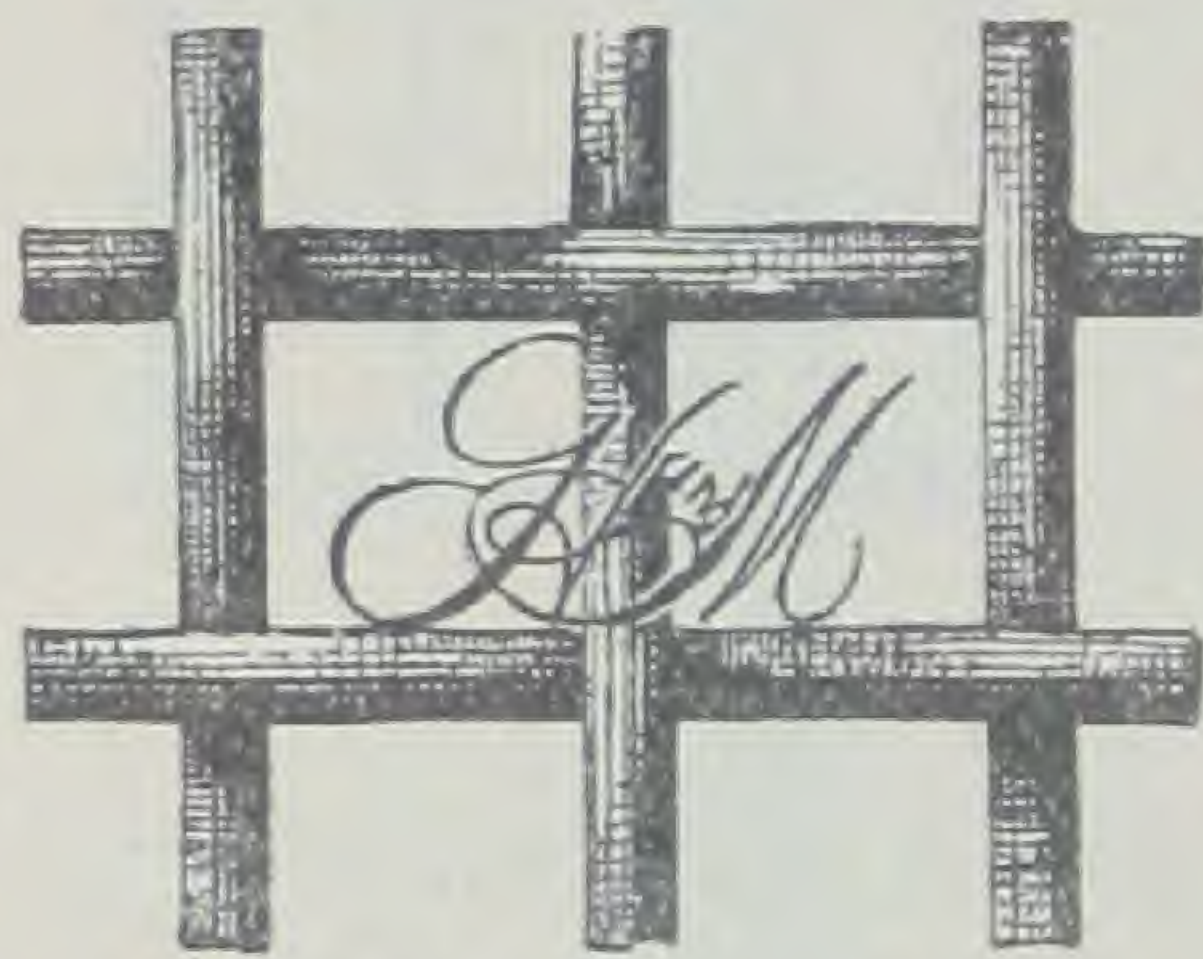
No length less than 100 feet shall be considered a Roll.

$2\frac{1}{2}$ inch Space between wires, No. 000 Wire, 75 cents per square foot.

$2\frac{1}{4}$	"	"	"	"	00	"	64	"	"	"
2	"	"	"	"	0	"	64	"	"	"
$1\frac{3}{4}$	"	"	"	"	0	"	72	"	"	"
$1\frac{1}{2}$	"	"	"	"	1	"	64	"	"	"
$1\frac{1}{4}$	"	"	"	"	2	"	64	"	"	"
1	"	"	"	"	3	"	64	"	"	"
$\frac{3}{4}$	"	"	"	"	6	"	48	"	"	"
$\frac{5}{8}$	"	"	"	"	8	"	48	"	"	"
$\frac{1}{2}$	"	"	"	"	10	"	40	"	"	"
$\frac{3}{8}$	"	"	"	"	11	"	40	"	"	"
$\frac{1}{4}$	"	"	"	"	13	"	40	"	"	"

STEEL OR IRON WIRE CLOTH.

[Worcester Gauge is used for all Iron or Steel Wire Cloth.]



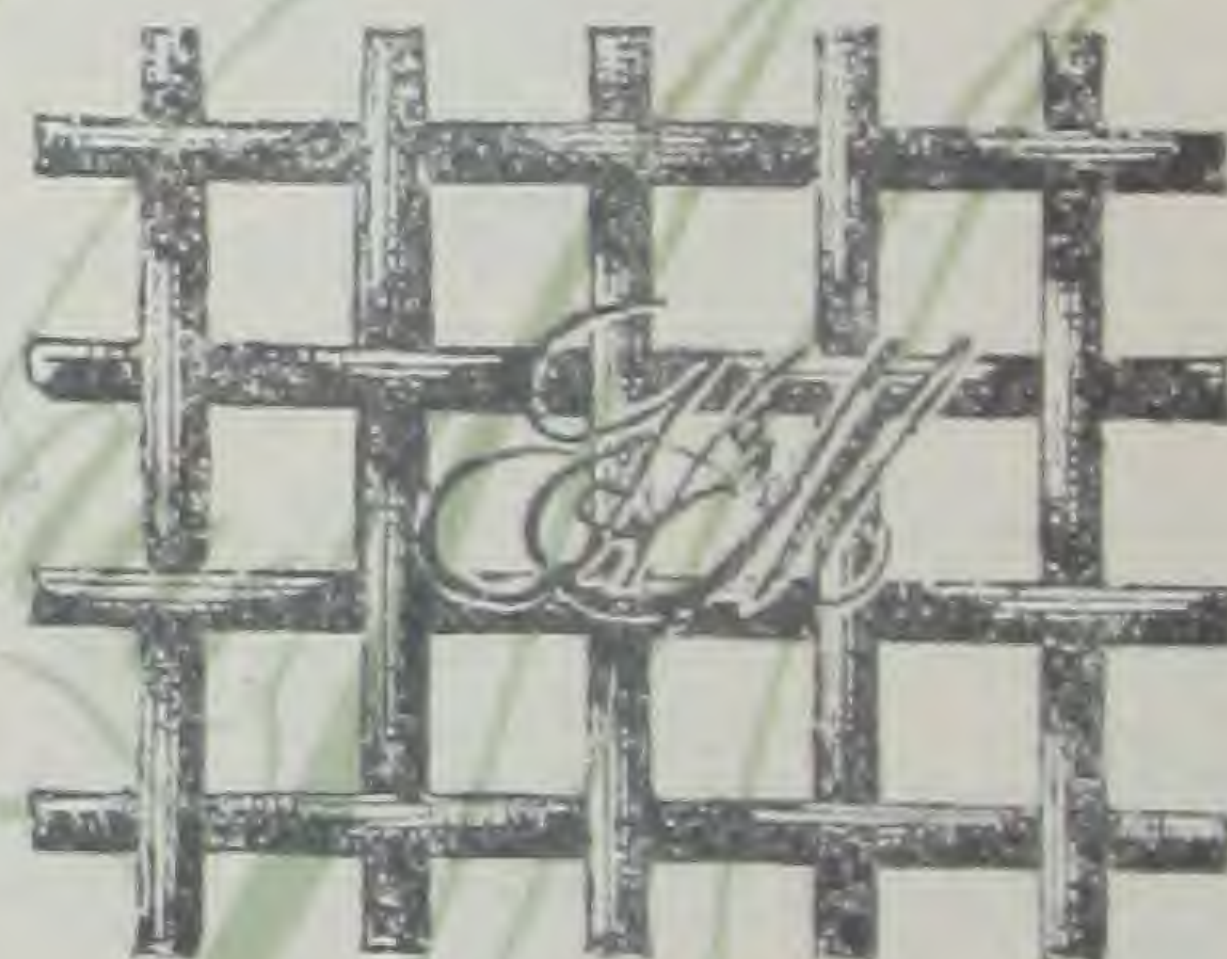
No. 2 Mesh Wire Cloth.



No. 2½ Mesh Wire Cloth.



No. 3 Mesh Wire Cloth.



No. 3½ Mesh Wire Cloth.



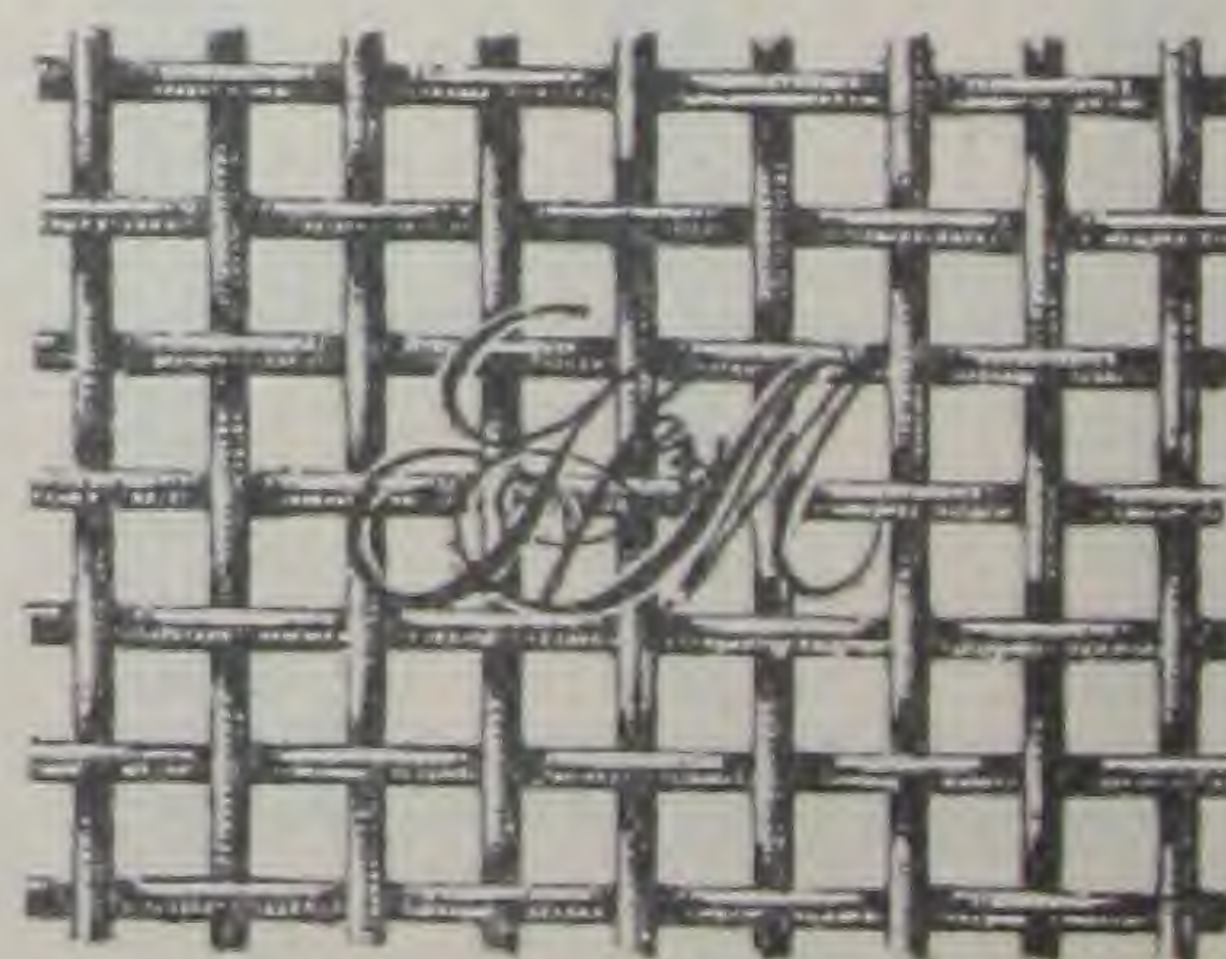
No. 4 Mesh Wire Cloth.



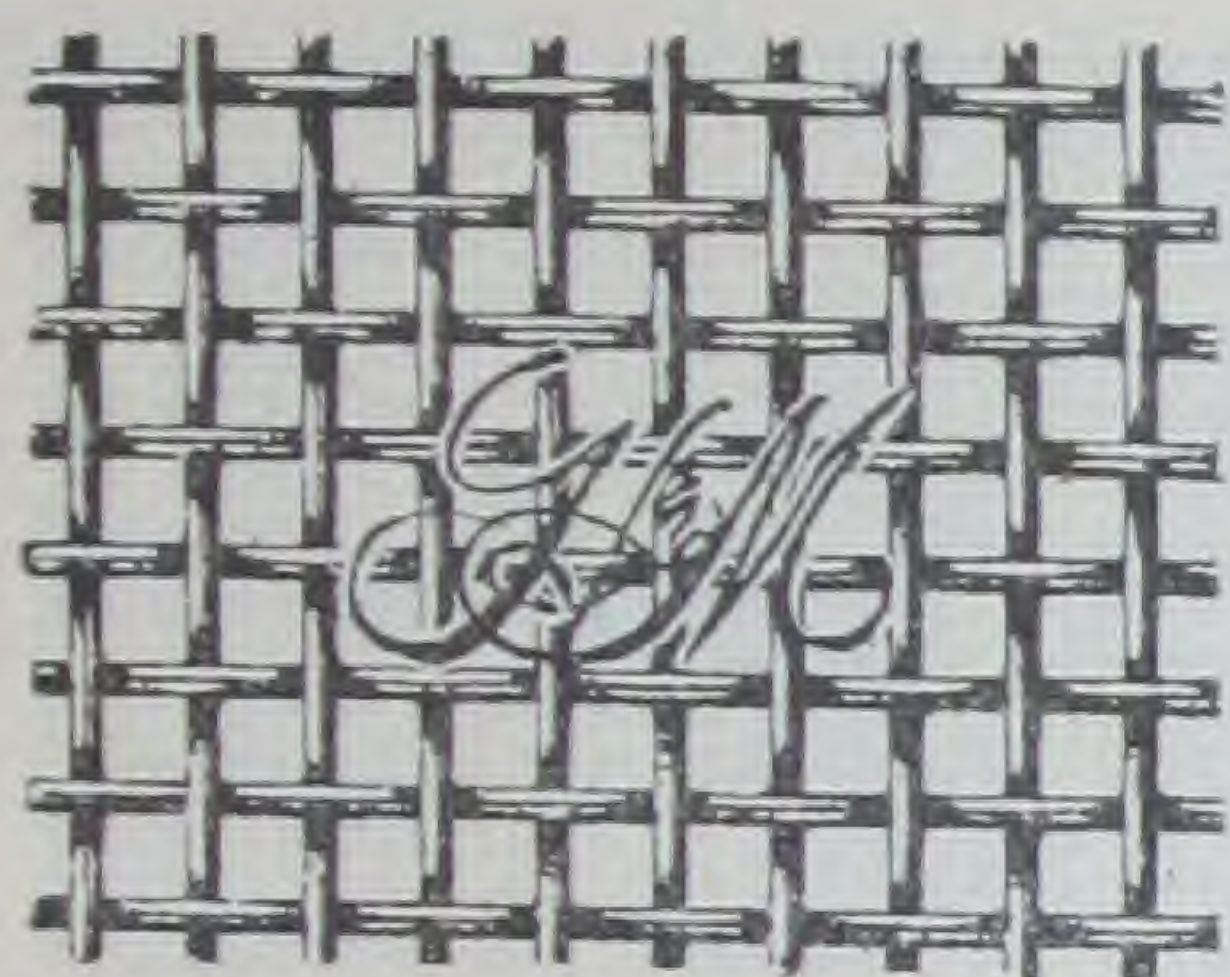
No. 4½ Mesh Wire Cloth.



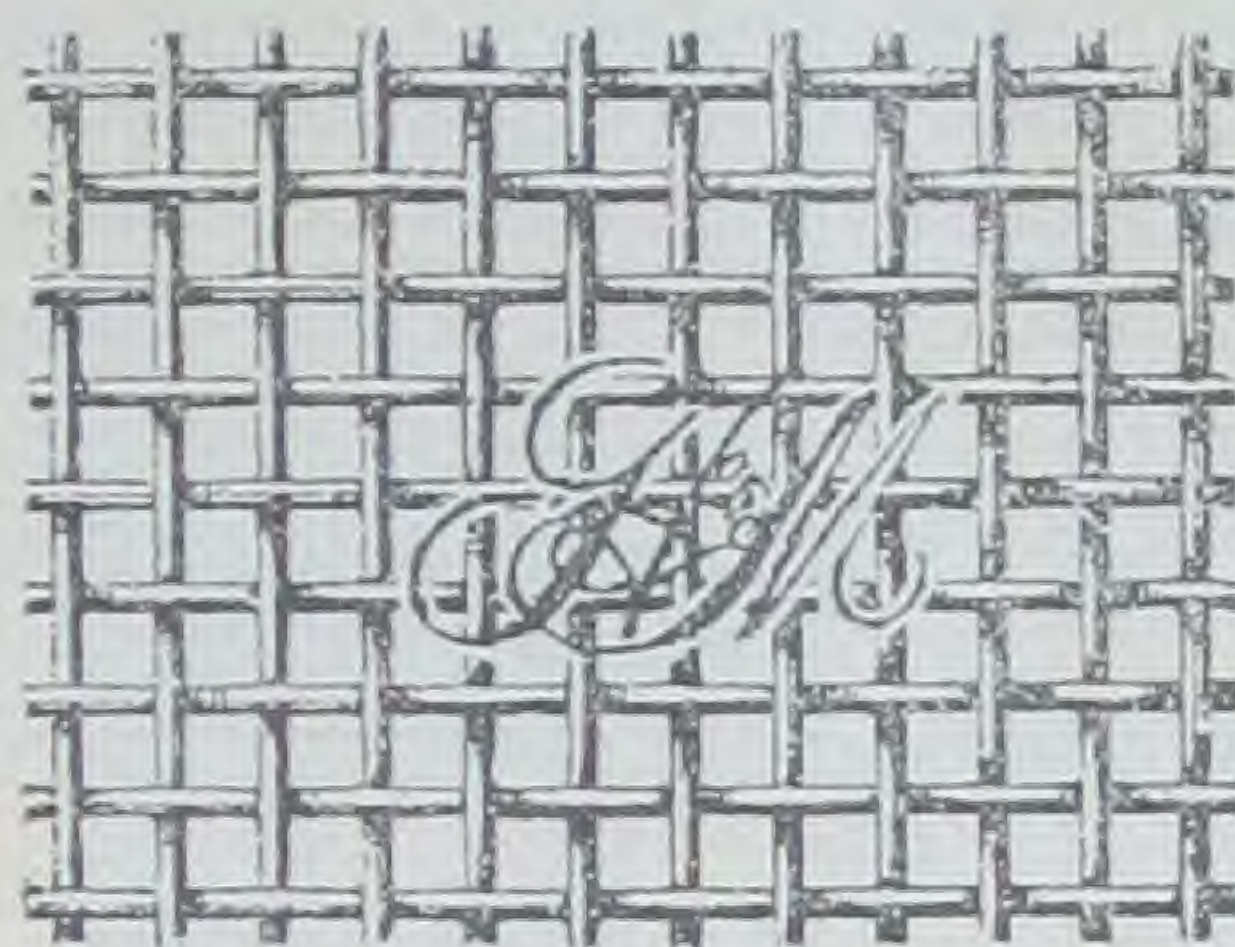
No. 5 Mesh Wire Cloth.



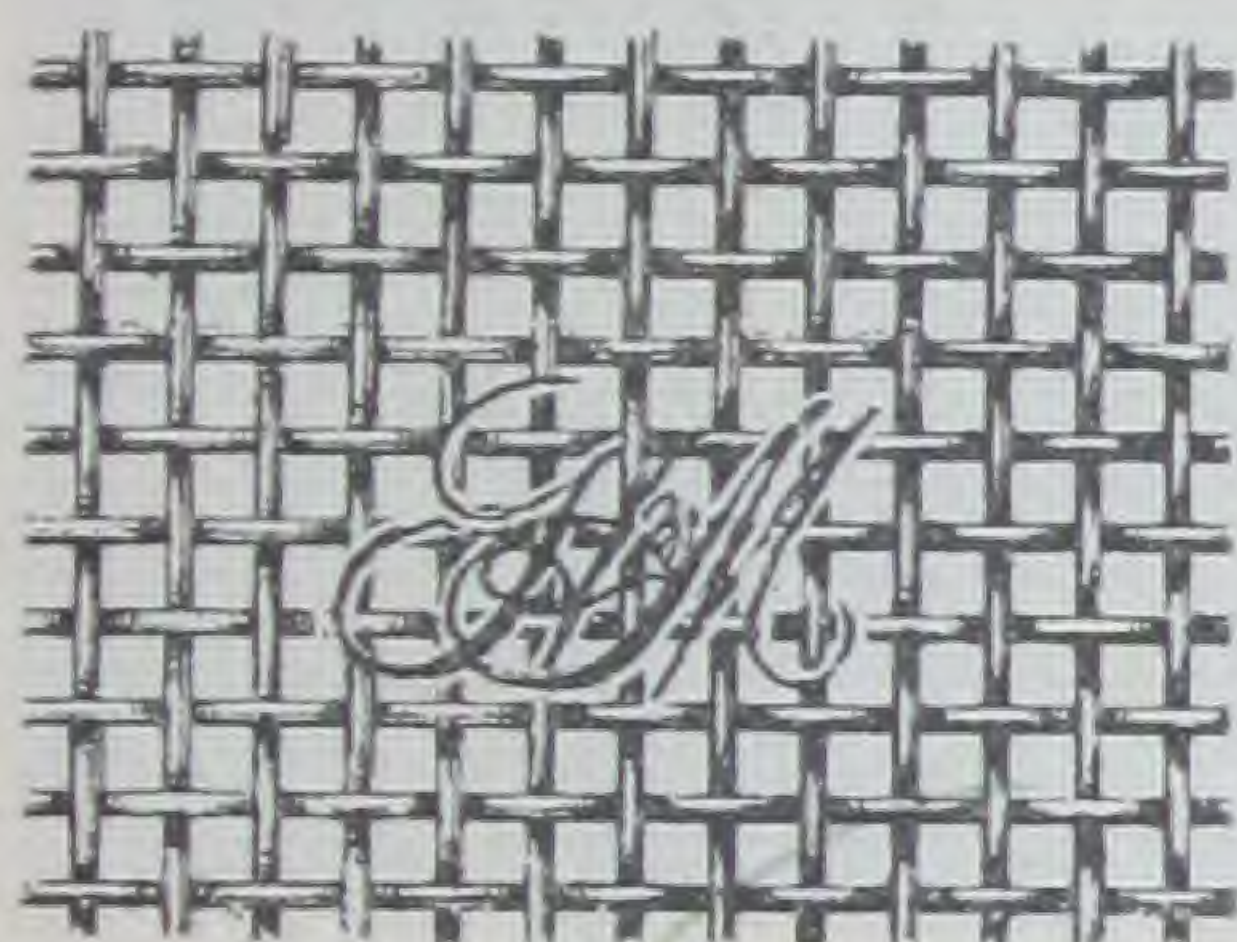
No. 6 Mesh Wire Cloth.



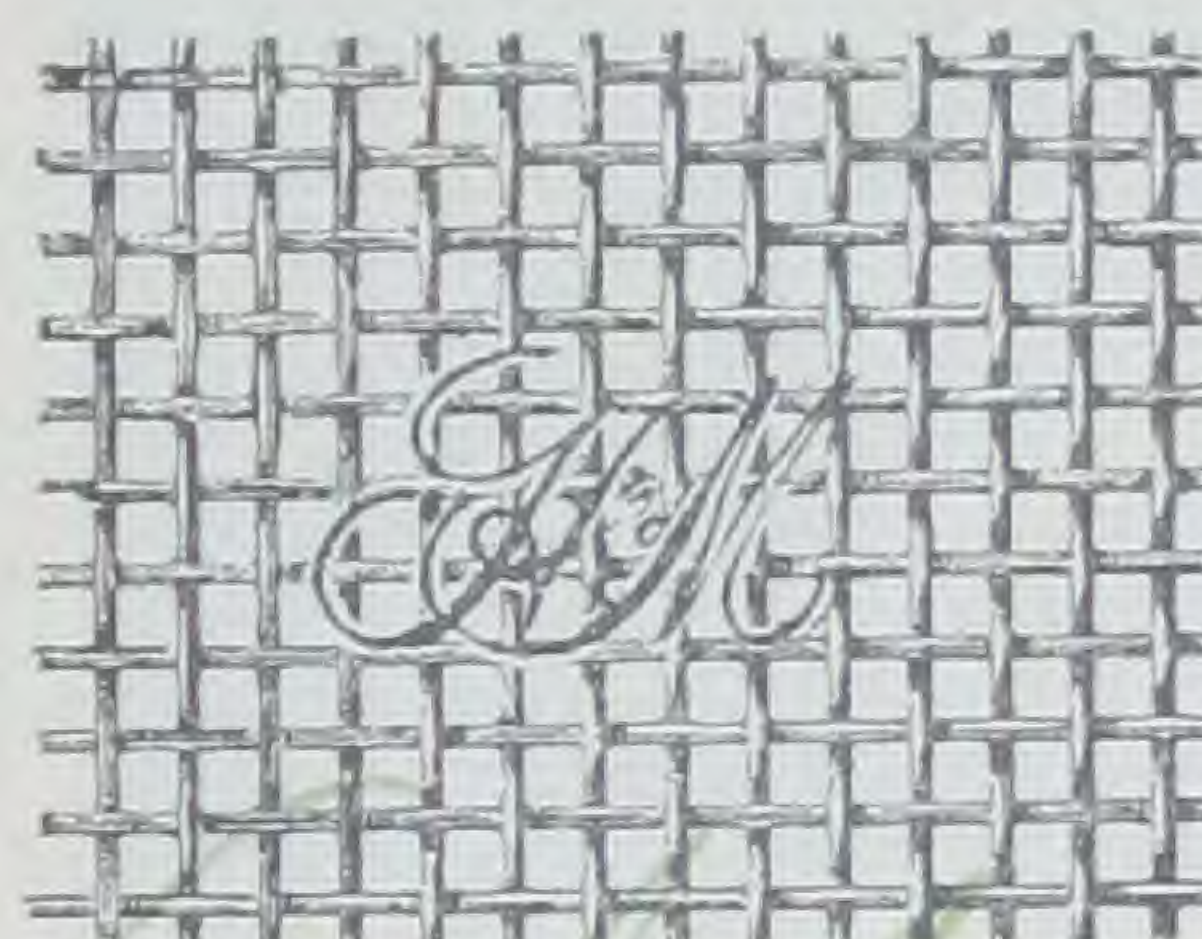
No. 7 Mesh Wire Cloth.



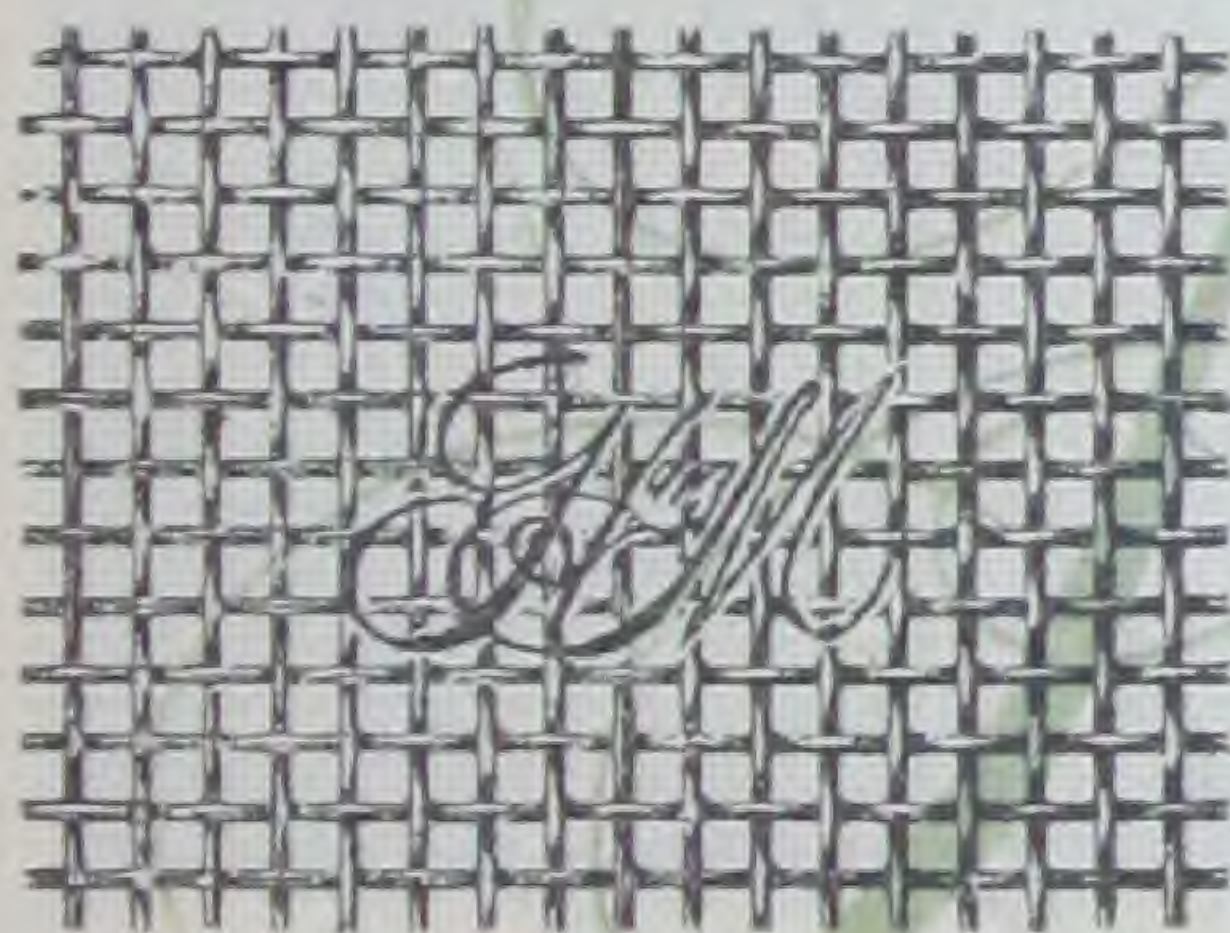
No. 8 Mesh Wire Cloth.



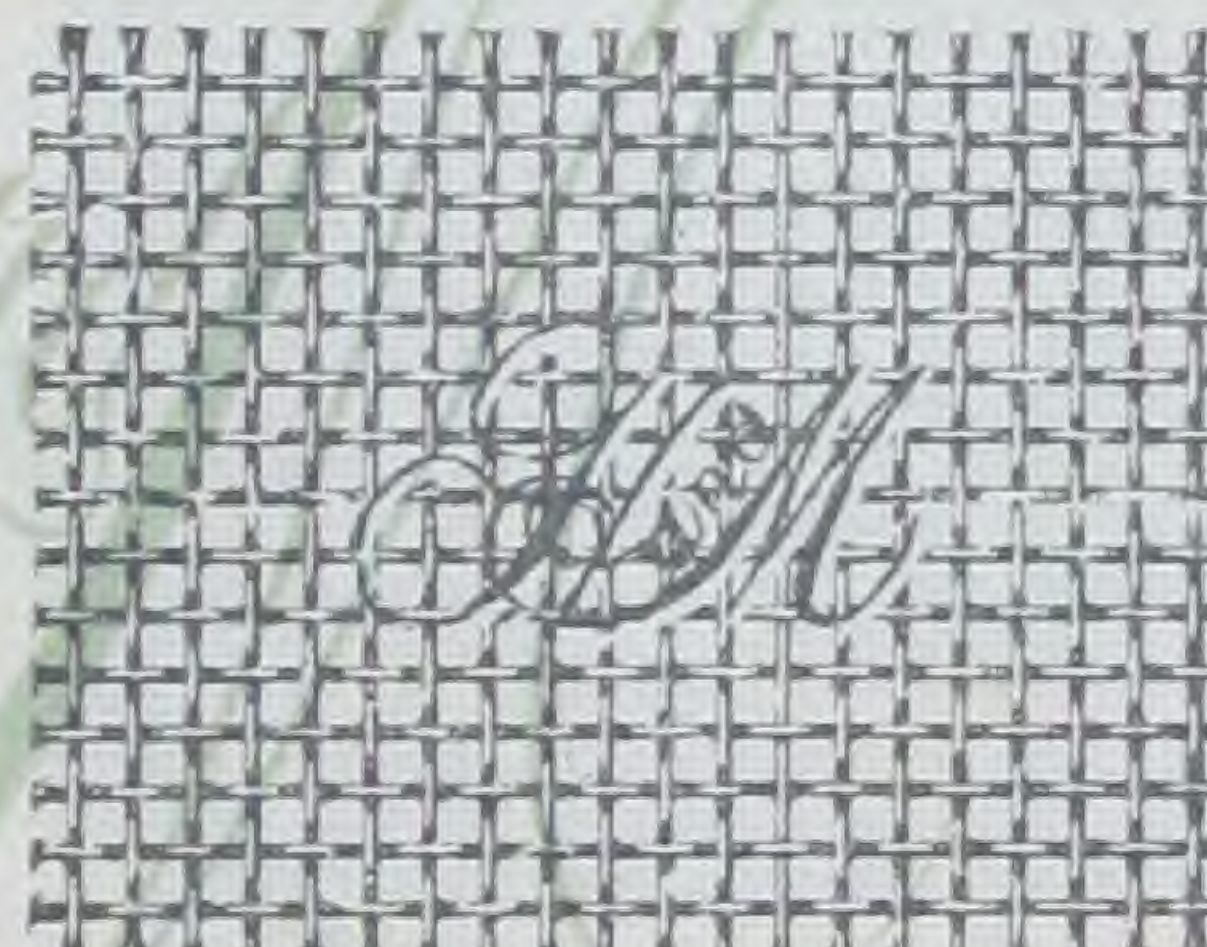
No. 9 Mesh Wire Cloth.



No. 10 Mesh Wire Cloth.



No. 12 Mesh Wire Cloth.



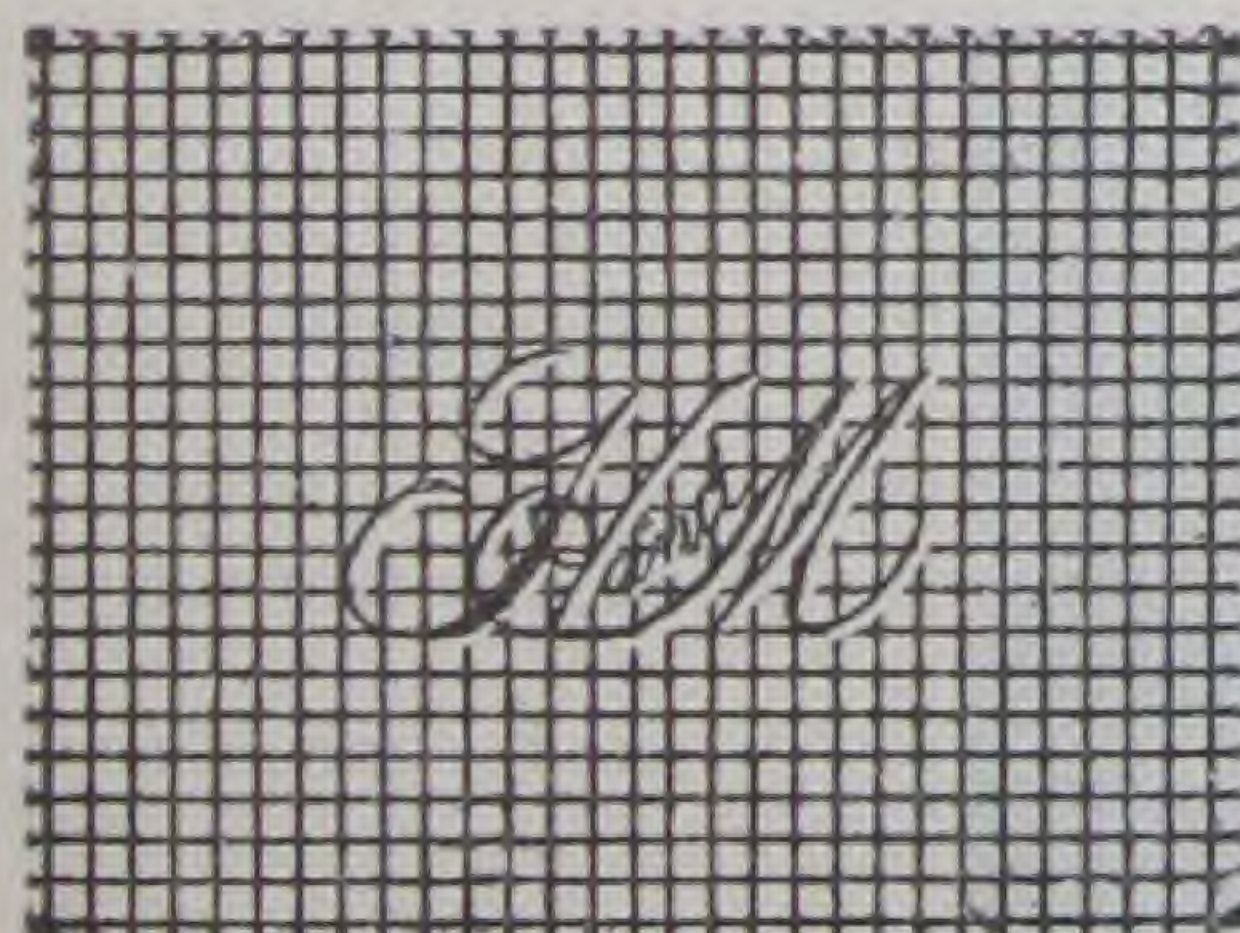
No. 14 Mesh Wire Cloth.



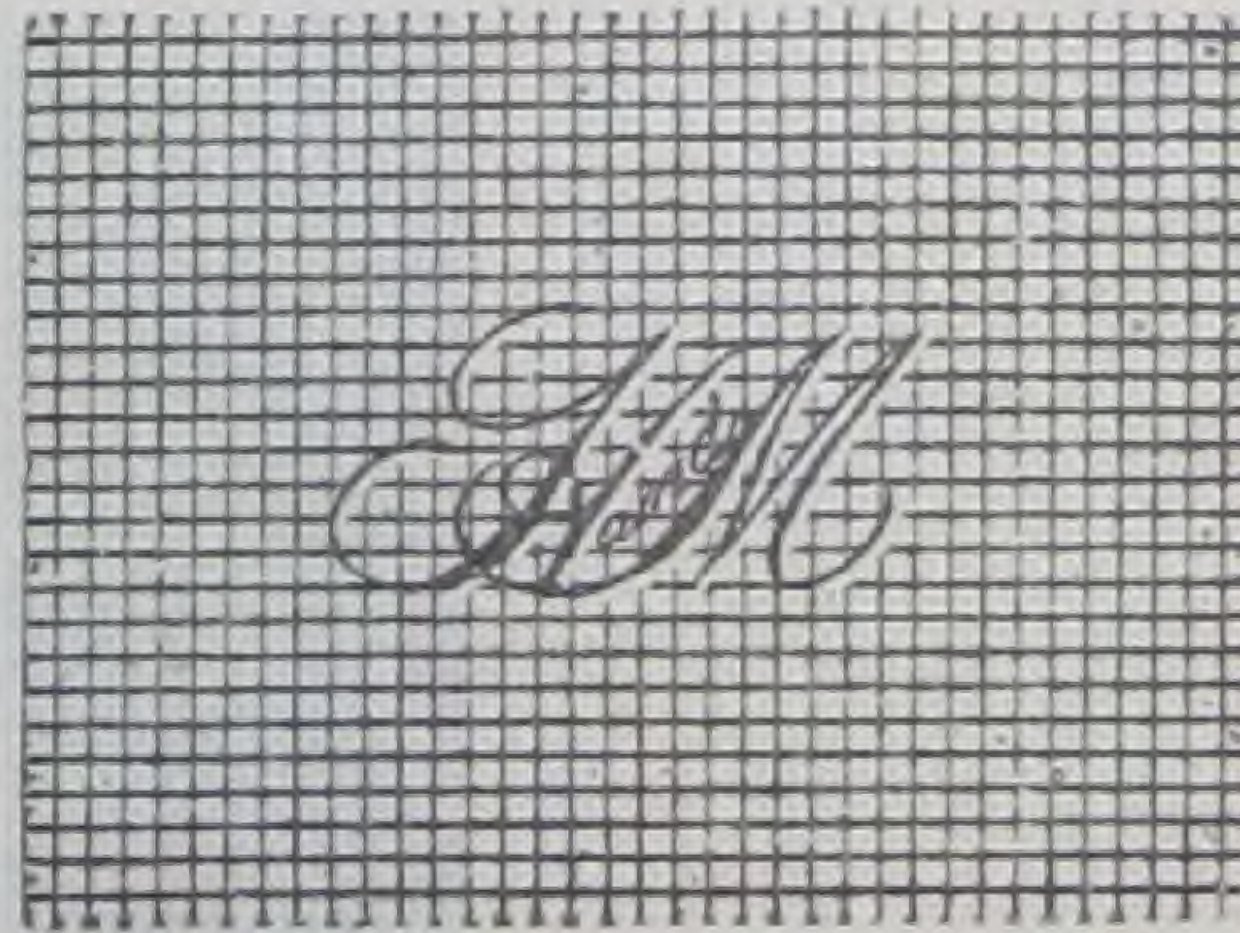
No. 16 Mesh Wire Cloth.



No. 18 Mesh Wire Cloth.



No. 20 Mesh Wire Cloth.



No. 25 Mesh Wire Cloth.



No. 30 Mesh Wire Cloth.



No. 35 Mesh Wire Cloth.



No. 40 Mesh Wire Cloth.



No. 50 Mesh Wire Cloth.



No. 60 Mesh Wire Cloth.



No. 70 Mesh Wire Cloth.



No. 80 Mesh Wire Cloth.



No. 90 Mesh Wire Cloth.



No. 100 Mesh Wire Cloth.

Manufacturers' Price List of all Grades of Iron or Steel Wire Cloth

The Mesh in Wire Cloth is the distance from the Centre to the Centre of the Wire per lineal inch.

Worcester Gauge is used for all Iron or Steel Wire Cloth.

No length less than 100 feet shall be considered a Roll of any kind, grade or quality of Wire Cloth.

No.	1	Mesh	Iron	Wire	Cloth,	No.	3	Wire,	88	cents	per	square	foot.
“	“	“	“	“	“	“	4	“	73	“	“	“	“
“	“	“	“	“	“	“	5	“	60	“	“	“	“
“	“	“	“	“	“	“	6	“	48	“	“	“	“
“	“	“	“	“	“	“	7	“	38	“	“	“	“
“	“	“	“	“	“	“	8	“	32	“	“	“	“
“	“	“	“	“	“	“	9	“	27	“	“	“	“
“	“	“	“	“	“	“	10	“	22	“	“	“	“
“	“	“	“	“	“	“	11	“	17	“	“	“	“
“	“	“	“	“	“	“	12	“	14	“	“	“	“
“	“	“	“	“	“	“	13	“	12	“	“	“	“
“	“	“	“	“	“	“	14	“	10	“	“	“	“
“	“	“	“	“	“	“	15	“	8	“	“	“	“
“	$\frac{3}{4}$	Mesh	“	“	“	“	4	“	88	“	“	“	“
“	“	“	“	“	“	“	5	“	73	“	“	“	“
“	“	“	“	“	“	“	6	“	60	“	“	“	“
“	“	“	“	“	“	“	7	“	48	“	“	“	“
“	“	“	“	“	“	“	8	“	38	“	“	“	“
“	“	“	“	“	“	“	9	“	32	“	“	“	“
“	“	“	“	“	“	“	10	“	27	“	“	“	“
“	“	“	“	“	“	“	11	“	22	“	“	“	“
“	“	“	“	“	“	“	12	“	17	“	“	“	“
“	“	“	“	“	“	“	13	“	14	“	“	“	“
“	“	“	“	“	“	“	14	“	12	“	“	“	“
“	“	“	“	“	“	“	15	“	10	“	“	“	“
“	“	“	“	“	“	“	16	“	8	“	“	“	“
“	$\frac{5}{8}$	Mesh	“	“	“	“	5	“	88	“	“	“	“
“	“	“	“	“	“	“	6	“	73	“	“	“	“
“	“	“	“	“	“	“	7	“	60	“	“	“	“
“	“	“	“	“	“	“	8	“	48	“	“	“	“
“	“	“	“	“	“	“	9	“	38	“	“	“	“
“	“	“	“	“	“	“	10	“	32	“	“	“	“
“	“	“	“	“	“	“	11	“	27	“	“	“	“
“	“	“	“	“	“	“	12	“	22	“	“	“	“
“	“	“	“	“	“	“	13	“	17	“	“	“	“
“	“	“	“	“	“	“	14	“	14	“	“	“	“
“	“	“	“	“	“	“	15	“	12	“	“	“	“
“	“	“	“	“	“	“	16	“	10	“	“	“	“
“	“	“	“	“	“	“	17	“	8	“	“	“	“
“	2	Mesh	“	“	“	“	8	“	60	“	“	“	“
“	“	“	“	“	“	“	9	“	48	“	“	“	“
“	“	“	“	“	“	“	10	“	38	“	“	“	“
“	“	“	“	“	“	“	11	“	32	“	“	“	“
“	“	“	“	“	“	“	12	“	27	“	“	“	“
“	“	“	“	“	“	“	13	“	22	“	“	“	“
“	“	“	“	“	“	“	14	“	17	“	“	“	“
“	“	“	“	“	“	“	15	“	14	“	“	“	“
“	“	“	“	“	“	“	16	“	12	“	“	“	“
“	“	“	“	“	“	“	17	“	10	“	“	“	“
“	“	“	“	“	“	“	18	“	8	“	“	“	“
“	$2\frac{1}{2}$	Mesh	“	“	“	“	9	“	60	“	“	“	“
“	“	“	“	“	“	“	10	“	48	“	“	“	“
“	“	“	“	“	“	“	11	“	38	“	“	“	“
“	“	“	“	“	“	“	12	“	32	“	“	“	“
“	“	“	“	“	“	“	13	“	27	“	“	“	“
“	“	“	“	“	“	“	14	“	22	“	“	“	“
“	“	“	“	“	“	“	15	“	17	“	“	“	“
“	“	“	“	“	“	“	16	“	14	“	“	“	“
“	“	“	“	“	“	“	17	“	12	“	“	“	“
“	“	“	“	“	“	“	18	“	10	“	“	“	“
“	“	“	“	“	“	“	19	“	8	“	“	“	“

Price List of Iron or Steel Wire Cloth.—Continued.

No length less than 100 feet shall be considered a Roll.

The Mesh in Wire Cloth is the distance from the centre to the
centre of the Wire per lineal inch.

No.	3 Mesh	Iron	Wire	Cloth,	No.	10	Wire,	60	cents	per	square	foot.
11					11			48				
12					12			38				
13					13			32				
14					14			27				
15					15			22				
16					16			17				
17					17			14				
18					18			12				
19					19			10				
3½ Mesh					11			60				
12					12			48				
13					13			38				
14					14			32				
15					15			27				
16					16			22				
17					17			17				
18					18			14				
19					19			12				
20					20			10				
21					21			8				
4 Mesh					12			60				
13					13			48				
14					14			38				
15					15			32				
16					16			27				
17					17			22				
18					18			17				
19					19			14				
20					20			12				
21					21			10				
22					22			8				
4½ Mesh					13			57				
14					14			45				
15					15			35				
16					16			29				
17					17			24				
18					18			19				
19					19			15				
20					20			13				
21					21			11				
22					22			9				
23					23			7				
5 Mesh					13			60				
14					14			48				
15					15			38				
16					16			32				
17					17			27				
18					18			22				
19					19			17				
20					20			14				
21					21			12				
22					22			10				
23					23			8				
24					24			7				

Price List of Iron or Steel Wire Cloth.—Continued.

No length less than 100 feet shall be considered a Roll.

The Mesh in Wire Cloth is the distance from the centre to the centre of the Wire per lineal inch.

No.	6 Mesh	Iron	Wire	Cloth,	No.	14	Wire,	60	cents	per	square	foot.
“	“	“	“	“	“	15	“	48	“	“	“	“
“	“	“	“	“	“	16	“	38	“	“	“	“
“	“	“	“	“	“	17	“	32	“	“	“	“
“	“	“	“	“	“	18	“	27	“	“	“	“
“	“	“	“	“	“	19	“	22	“	“	“	“
“	“	“	“	“	“	20	“	17	“	“	“	“
“	“	“	“	“	“	21	“	14	“	“	“	“
“	“	“	“	“	“	22	“	12	“	“	“	“
“	“	“	“	“	“	23	“	10	“	“	“	“
“	“	“	“	“	“	24	“	8	“	“	“	“
“	“	“	“	“	“	25	“	7	“	“	“	“
“	7 Mesh	“	“	“	“	15	“	60	“	“	“	“
“	“	“	“	“	“	16	“	48	“	“	“	“
“	“	“	“	“	“	17	“	38	“	“	“	“
“	“	“	“	“	“	18	“	32	“	“	“	“
“	“	“	“	“	“	19	“	27	“	“	“	“
“	“	“	“	“	“	20	“	22	“	“	“	“
“	“	“	“	“	“	21	“	17	“	“	“	“
“	“	“	“	“	“	22	“	14	“	“	“	“
“	“	“	“	“	“	23	“	12	“	“	“	“
“	“	“	“	“	“	24	“	10	“	“	“	“
“	“	“	“	“	“	25	“	8	“	“	“	“
“	“	“	“	“	“	26	“	7	“	“	“	“
“	8 Mesh	“	“	“	“	16	“	60	“	“	“	“
“	“	“	“	“	“	17	“	48	“	“	“	“
“	“	“	“	“	“	18	“	38	“	“	“	“
“	“	“	“	“	“	19	“	32	“	“	“	“
“	“	“	“	“	“	20	“	27	“	“	“	“
“	“	“	“	“	“	21	“	22	“	“	“	“
“	“	“	“	“	“	22	“	17	“	“	“	“
“	“	“	“	“	“	23	“	14	“	“	“	“
“	“	“	“	“	“	24	“	12	“	“	“	“
“	“	“	“	“	“	25	“	10	“	“	“	“
“	“	“	“	“	“	26	“	8	“	“	“	“
“	“	“	“	“	“	27	“	7	“	“	“	“
“	9 Mesh	“	“	“	“	17	“	60	“	“	“	“
“	“	“	“	“	“	18	“	48	“	“	“	“
“	“	“	“	“	“	19	“	38	“	“	“	“
“	“	“	“	“	“	20	“	32	“	“	“	“
“	“	“	“	“	“	21	“	27	“	“	“	“
“	“	“	“	“	“	22	“	22	“	“	“	“
“	“	“	“	“	“	23	“	17	“	“	“	“
“	“	“	“	“	“	24	“	14	“	“	“	“
“	“	“	“	“	“	25	“	12	“	“	“	“
“	“	“	“	“	“	26	“	10	“	“	“	“
“	“	“	“	“	“	27	“	8	“	“	“	“
“	“	“	“	“	“	28	“	7	“	“	“	“
“	10 Mesh	“	“	“	“	18	“	60	“	“	“	“
“	“	“	“	“	“	19	“	48	“	“	“	“
“	“	“	“	“	“	20	“	38	“	“	“	“
“	“	“	“	“	“	21	“	32	“	“	“	“
“	“	“	“	“	“	22	“	27	“	“	“	“
“	“	“	“	“	“	23	“	22	“	“	“	“
“	“	“	“	“	“	24	“	17	“	“	“	“
“	“	“	“	“	“	25	“	14	“	“	“	“
“	“	“	“	“	“	26	“	12	“	“	“	“
“	“	“	“	“	“	27	“	10	“	“	“	“
“	“	“	“	“	“	28	“	8	“	“	“	“
“	“	“	“	“	“	29	“	7	“	“	“	“

Price List of Iron or Steel Wire Cloth.—Continued.

No length less than 100 feet shall be considered a Roll.

The Mesh in Wire Cloth is the distance from the centre to the centre of the Wire per lineal inch.

No.	12 Mesh	Iron	Wire Cloth,	No.	19 Wire,	60 cents	per square foot.
11	11	11	11	20	48	11	11
11	11	11	11	21	38	11	11
11	11	11	11	22	32	11	11
11	11	11	11	23	27	11	11
11	11	11	11	24	22	11	11
11	11	11	11	25	17	11	11
11	11	11	11	26	14	11	11
11	11	11	11	27	12	11	11
11	11	11	11	28	10	11	11
11	11	11	11	29	8	11	11
11	11	11	11	30	7	11	11
11	14 Mesh	11	11	20	60	11	11
11	11	11	11	21	48	11	11
11	11	11	11	22	38	11	11
11	11	11	11	23	32	11	11
11	11	11	11	24	27	11	11
11	11	11	11	25	22	11	11
11	11	11	11	26	17	11	11
11	11	11	11	27	15	11	11
11	11	11	11	28	13	11	11
11	11	11	11	29	12	11	11
11	11	11	11	30	11	11	11
11	11	11	11	31	10	11	11
11	11	11	11	32	9	11	11
11	11	11	11	33	8	11	11
11	11	11	11	34	7	11	11
11	16 Mesh	11	11	22	60	11	11
11	11	11	11	22&23	48	11	11
11	11	11	11	23	38	11	11
11	11	11	11	24	32	11	11
11	11	11	11	25	27	11	11
11	11	11	11	26	22	11	11
11	11	11	11	27	17	11	11
11	11	11	11	28	15	11	11
11	11	11	11	29	13	11	11
11	11	11	11	30	12	11	11
11	11	11	11	31	11	11	11
11	11	11	11	32	10	11	11
11	11	11	11	33	9	11	11
11	11	11	11	34	8	11	11
11	11	11	11	35	7	11	11
11	18 Mesh	11	11	23	60	11	11
11	11	11	11	23&24	48	11	11
11	11	11	11	24	38	11	11
11	11	11	11	25	32	11	11
11	11	11	11	26	27	11	11
11	11	11	11	27	22	11	11
11	11	11	11	28	17	11	11
11	11	11	11	29	15	11	11
11	11	11	11	30	13	11	11
11	11	11	11	31	12	11	11
11	11	11	11	32	11	11	11
11	11	11	11	33	10	11	11
11	11	11	11	34	9	11	11
11	11	11	11	35	8	11	11
11	11	11	11	36	7	11	11
11	20 Mesh	11	11	24	62	11	11
11	11	11	11	25	52	11	11
11	11	11	11	26	43	11	11
11	11	11	11	27	35	11	11
11	11	11	11	28	27	11	11

Price List of Iron or Steel Wire Cloth.—Continued.

No length less than 100 feet shall be considered a Roll.

The Mesh in Wire Cloth is the distance from the centre to the centre of the Wire per lineal inch.

No.	20	Mesh	Iron	Wire	Cloth,	No.	29	Wire,	24	cents	per	square	foot.
“	“	“	“	“	“	“	30	“	20	“	“	“	“
“	“	“	“	“	“	“	31	“	17	“	“	“	“
“	“	“	“	“	“	“	32	“	15	“	“	“	“
“	“	“	“	“	“	“	33	“	13	“	“	“	“
“	“	“	“	“	“	“	34	“	12	“	“	“	“
“	“	“	“	“	“	“	35	“	10	“	“	“	“
“	“	“	“	“	“	“	36	“	8	“	“	“	“
“	22	Mesh	“	“	“	“	25	“	65	“	“	“	“
“	“	“	“	“	“	“	26	“	55	“	“	“	“
“	“	“	“	“	“	“	27	“	46	“	“	“	“
“	“	“	“	“	“	“	28	“	38	“	“	“	“
“	“	“	“	“	“	“	29	“	30	“	“	“	“
“	“	“	“	“	“	“	30	“	26	“	“	“	“
“	“	“	“	“	“	“	31	“	22	“	“	“	“
“	“	“	“	“	“	“	32	“	19	“	“	“	“
“	“	“	“	“	“	“	33	“	17	“	“	“	“
“	“	“	“	“	“	“	34	“	15	“	“	“	“
“	“	“	“	“	“	“	35	“	13	“	“	“	“
“	“	“	“	“	“	“	36	“	12	“	“	“	“
“	24	Mesh	“	“	“	“	26	“	65	“	“	“	“
“	“	“	“	“	“	“	27	“	55	“	“	“	“
“	“	“	“	“	“	“	28	“	46	“	“	“	“
“	“	“	“	“	“	“	29	“	38	“	“	“	“
“	“	“	“	“	“	“	30	“	30	“	“	“	“
“	“	“	“	“	“	“	31	“	26	“	“	“	“
“	“	“	“	“	“	“	32	“	22	“	“	“	“
“	“	“	“	“	“	“	33	“	19	“	“	“	“
“	“	“	“	“	“	“	34	“	17	“	“	“	“
“	“	“	“	“	“	“	35	“	15	“	“	“	“
“	“	“	“	“	“	“	36	“	13	“	“	“	“
“	30	Mesh	“	“	“	“	28	“	66	“	“	“	“
“	“	“	“	“	“	“	29	“	56	“	“	“	“
“	“	“	“	“	“	“	30	“	47	“	“	“	“
“	“	“	“	“	“	“	31	“	37	“	“	“	“
“	“	“	“	“	“	“	32	“	31	“	“	“	“
“	“	“	“	“	“	“	33	“	27	“	“	“	“
“	“	“	“	“	“	“	34	“	23	“	“	“	“
“	“	“	“	“	“	“	35	“	20	“	“	“	“
“	“	“	“	“	“	“	36	“	19	“	“	“	“
“	35	Mesh	“	“	“	“	30	“	63	“	“	“	“
“	“	“	“	“	“	“	31	“	51	“	“	“	“
“	“	“	“	“	“	“	32	“	42	“	“	“	“
“	“	“	“	“	“	“	33	“	38	“	“	“	“
“	“	“	“	“	“	“	34	“	34	“	“	“	“
“	40	Mesh	“	“	“	“	31	“	68	“	“	“	“
“	“	“	“	“	“	“	32	“	57	“	“	“	“
“	“	“	“	“	“	“	33	“	48	“	“	“	“
“	“	“	“	“	“	“	34	“	44	“	“	“	“
“	“	“	“	“	“	“	35	“	40	“	“	“	“
“	“	“	“	“	“	“	36	“	36	“	“	“	“
“	“	“	“	“	“	“	37	“	32	“	“	“	“
“	45	Mesh	“	“	“	“	33	“	70	“	“	“	“
“	“	“	“	“	“	“	34	“	58	“	“	“	“
“	“	“	“	“	“	“	35	“	50	“	“	“	“
“	“	“	“	“	“	“	36	“	46	“	“	“	“

Price List of Iron or Steel Wire Cloth.—Continued.

No length less than 100 feet shall be considered a Roll.

The Mesh in Wire Cloth is the distance from the centre to the centre of the Wire per lineal inch.

No.	50 Mesh	Iron Wire Cloth,	No.	34 Wire,	72 cents	per square foot.
"	"	"	"	35	59	"
"	"	"	"	36	52	"
"	"	"	"	37	48	"
"	"	"	"	38	44	"
"	55 Mesh	"	"	35	67	"
"	"	"	"	36	62	"
"	"	"	"	37	58	"
"	60 Mesh	"	"	36	68	"
"	"	"	"	37	64	"
"	"	"	"	38	60	"
"	"	"	"	39	58	"
"	64 Mesh	"	"	37	75	"
"	"	"	"	38	70	"
"	"	"	"	39	65	"
"	70 Mesh	"	"	38	80	"
"	"	"	"	39	75	"
"	74 Mesh	"	"	39	90	"
"	"	"	"	40	85	"
"	80 Mesh	"	"	40	1.05	"
"	"	"	"	41	90	"
"	90 Mesh	"	"	42	1.25	"

Price List of Galvanized Wire Cloth.

No length less than 100 feet shall be considered a Roll.

☞ Same Price List as Plain Iron or Steel Wire Cloth.

Discount,

Price List of Tinned Wire Cloth.

No length less than 100 feet shall be considered a Roll.

☞ Same Price List as Plain Iron or Steel Wire Cloth.

Discount,

Price List of Painted Window Screen Wire Cloth.

No length less than 100 feet shall be considered a Roll.

Plain Painted Wire Cloth, by the Roll	2 cents per sq. foot.
Figured " " " " " "	4 " " " "
Landscape Painted Wire Cloth, by the Roll	10 " " " "

Discount,

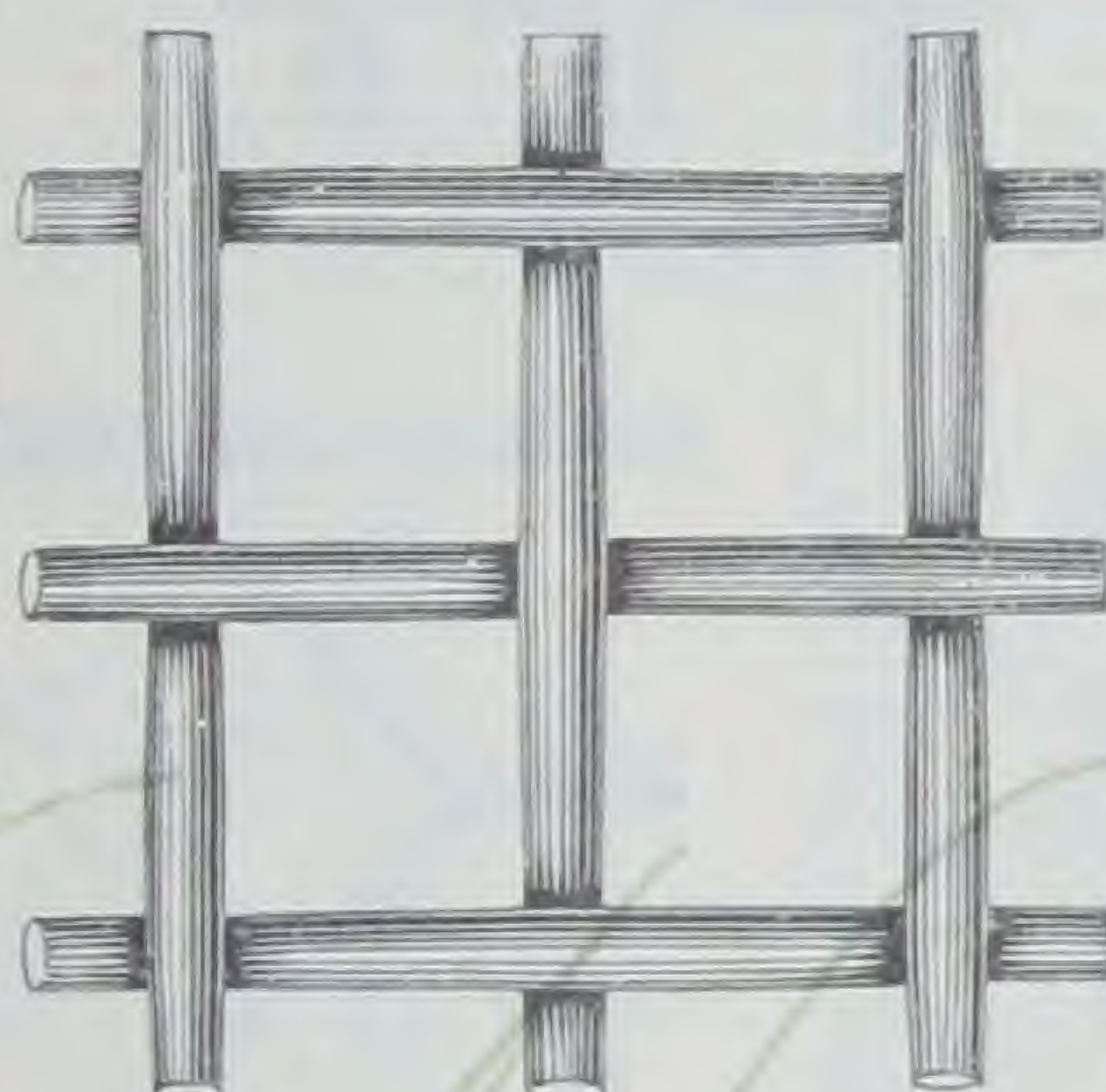
GALVANIZED WIRE CLOTH,

FOR THE PROTECTION OF

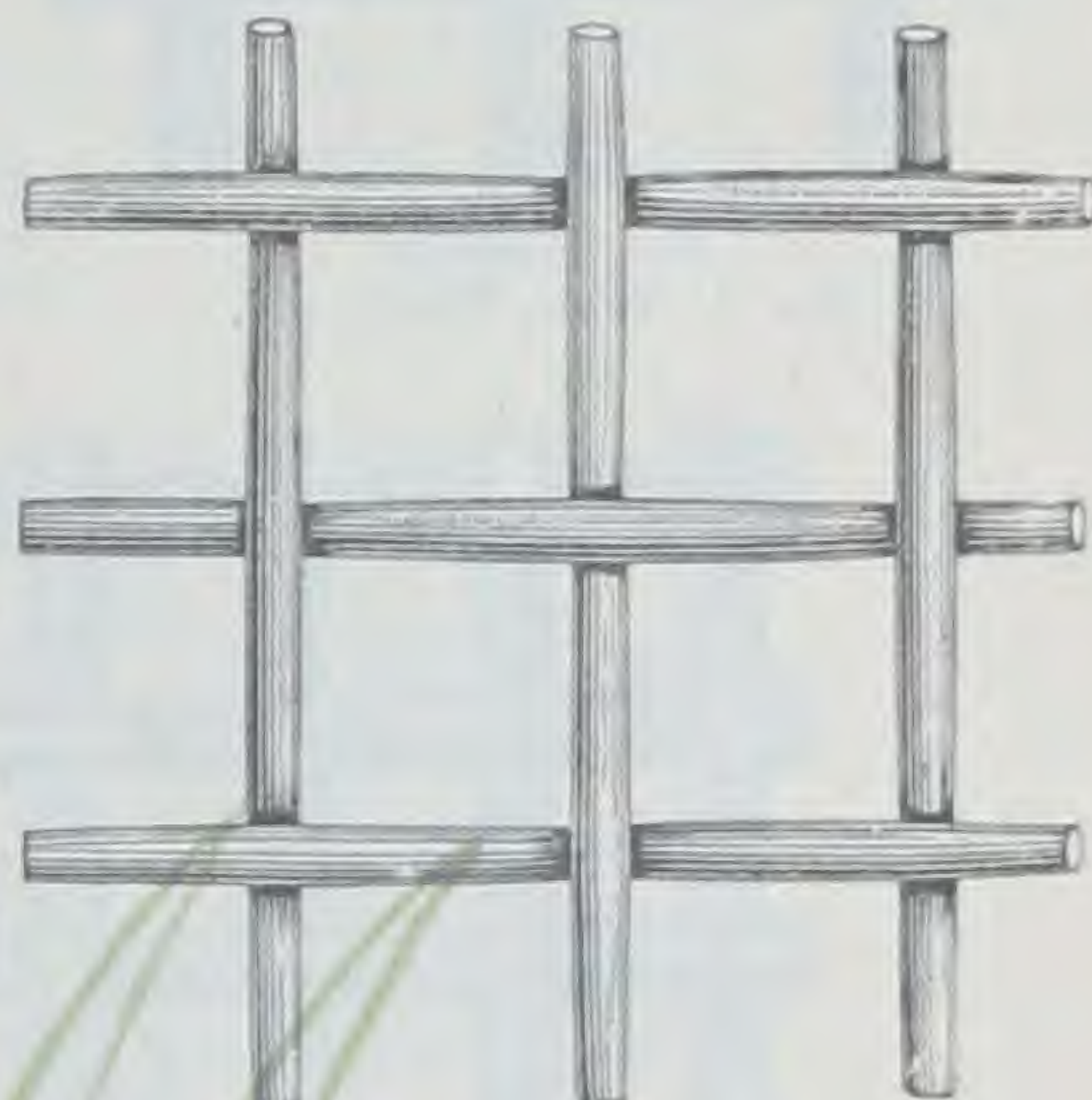
Factory Windows, Skylights, &c.



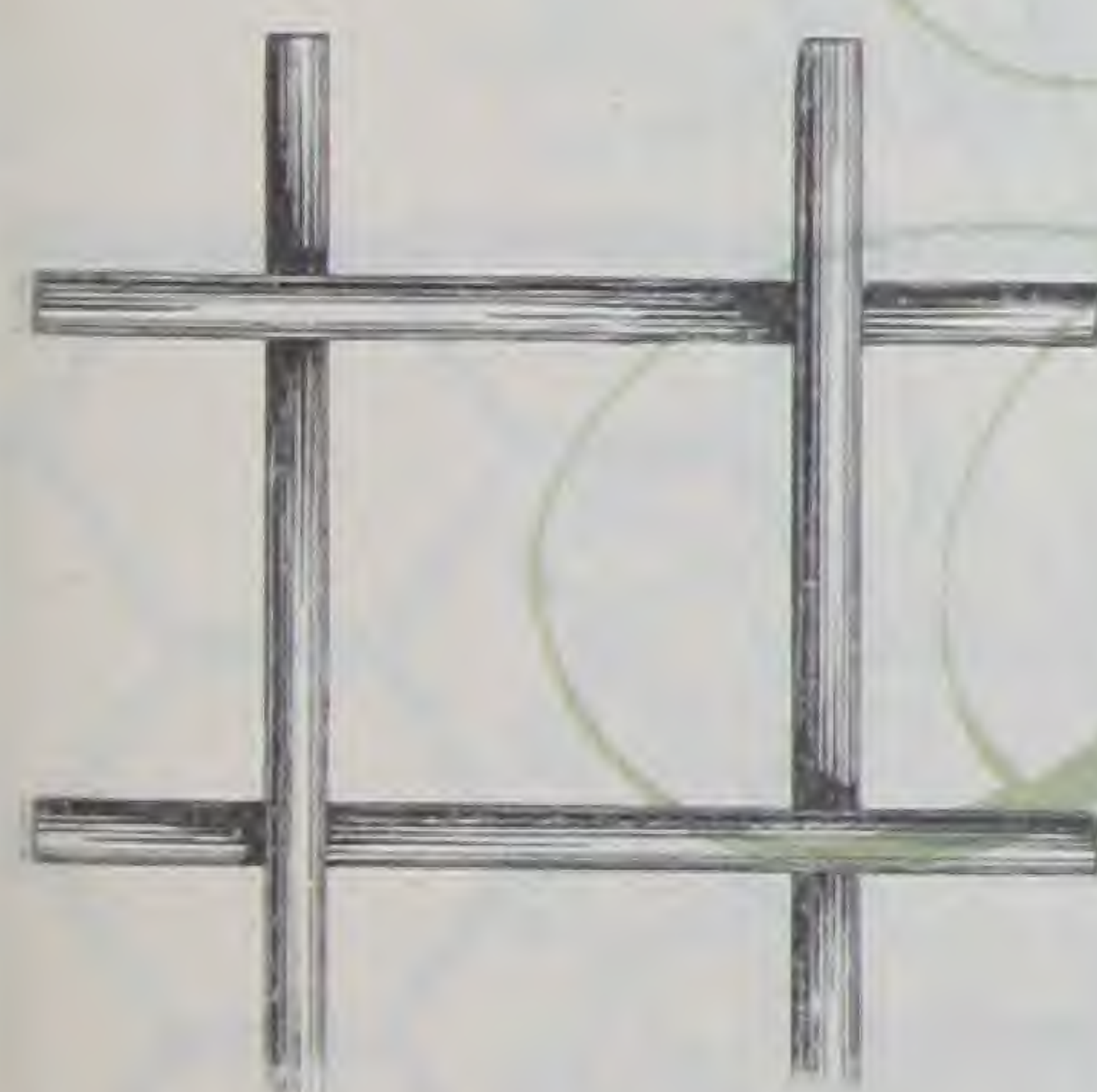
No. 2 Mesh, No. 11 Wire.



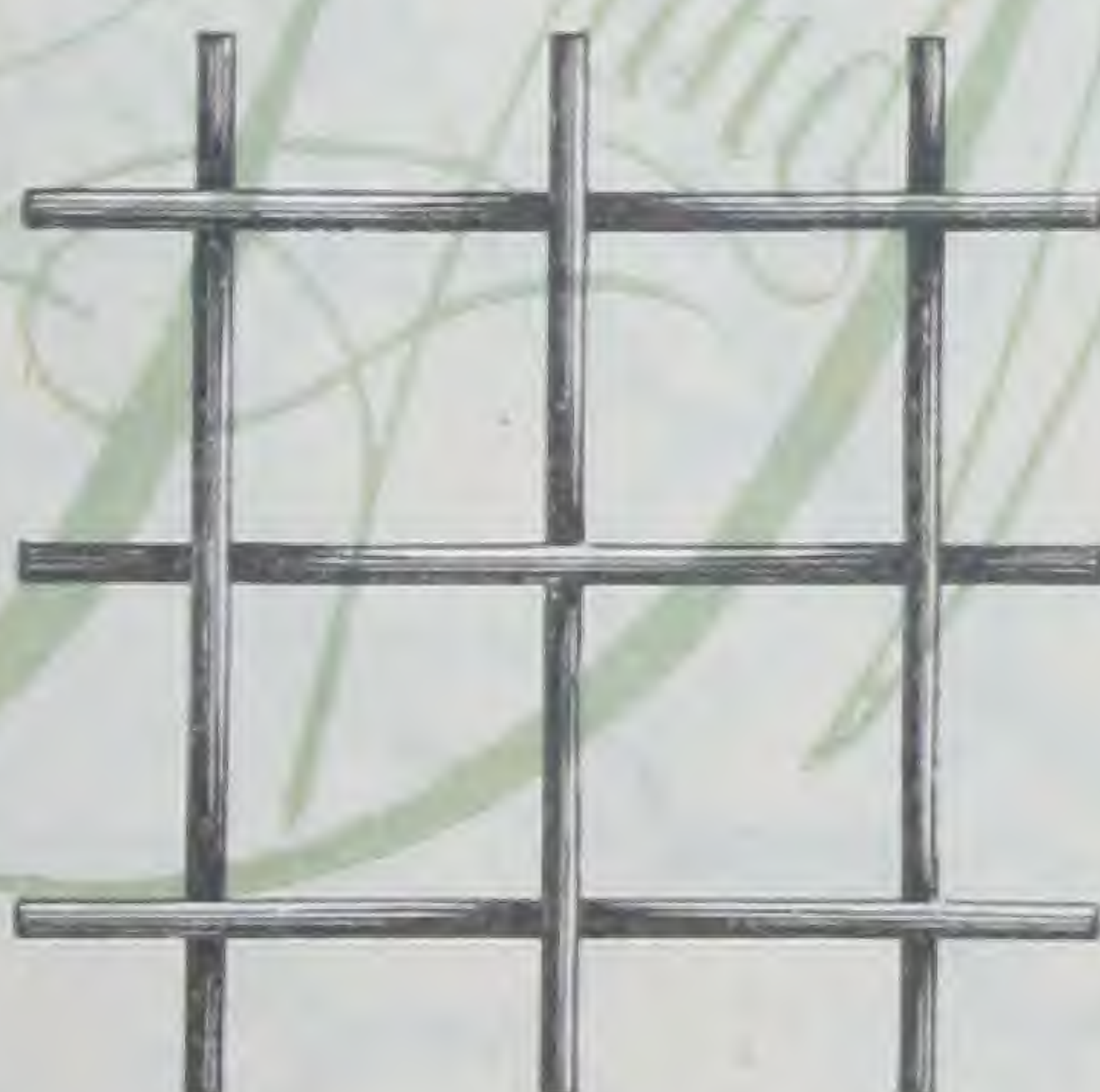
No. 2 Mesh, No. 12 Wire.



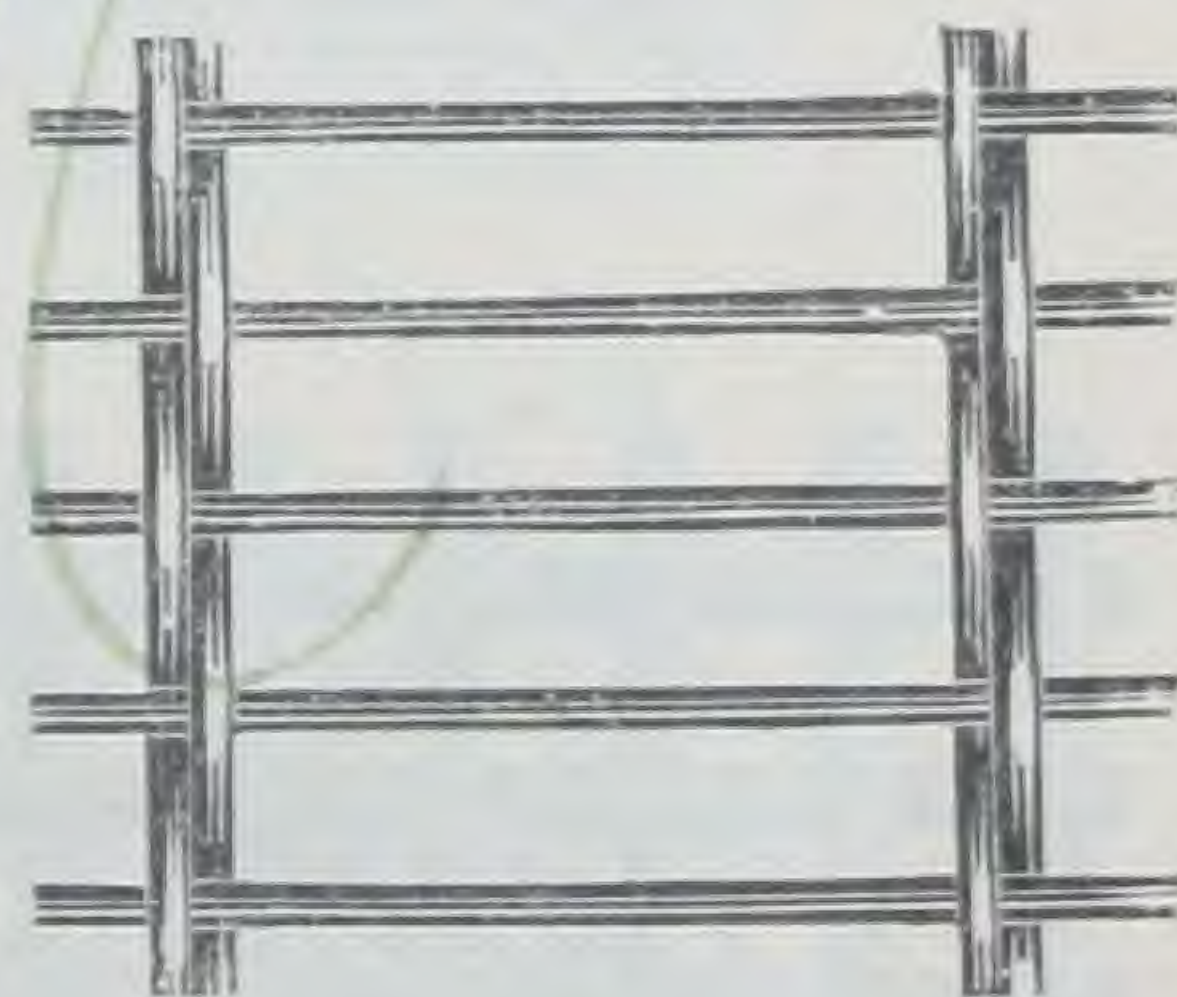
No. 2 Mesh, No. 14 Wire.



No. $\frac{3}{4}$ Mesh, No. 13 Wire.



No. 2 Mesh, No. 17 Wire.



No. 1 x 4 Mesh, No. 18 Wire.

We submit to the attention of **MILL OWNERS** and others, **GALVANIZED WIRE CLOTH**, for the purpose of protecting the window glass in buildings, from stones, etc., also to prevent the possibility of petty pilferings between operatives and confederates from without. The frequency of and annoyance and expense in replacing broken glass have been realized by all whose windows remain unprotected.

This can be largely, if not **wholly, obviated** by the application of Wire Cloth, which can be readily stapled to the window frames. It neither impedes circulation of light nor air; its "wiry" texture resisting the heaviest missile, or artifices of the petty pilferer from without, while its weather proof coating renders it impervious to storm. We show above a few grades and meshes commonly used for the purpose, **but we can make specially** grades to suit the wants of the buyer.

We also manufacture to order hand-made work of diamond mesh and other patterns, secured to strong iron frames, presenting a stronger and handsome appearance. Prices or estimates of both upon application.

Galvanized and Iron or Steel Wire Cloth for Drying.



No. 2 Mesh,
No. 11 Wire, Wool, etc.



No. 2 1/2 Mesh,
No. 10 Wire, Wool, etc.



No. 3 Mesh,
No. 12 Wire, Wool, etc.



No. 5 Mesh,
No. 11 Wire, Wool, etc.



1 inch Mesh, Galvanized Twist Wire Netting,
Tobacco, Flax, etc.



No. 4 Mesh—Fruit, Fish, etc.



3/4 inch Mesh for Fruit, Berries, Tobacco, etc.

Above we show a few engravings of **WIRE CLOTH** and **WIRE NETTING**, drawn to exact size of Mesh and Wire, which are commonly used for the purpose of

DRYING RAW PRODUCTS.

We are by no means confined to these particular grades, and can conform in manufacture to the requirements of the purpose or opinion and experience of the buyer.

The cuts are published more to present (where unknown) the general advantages of **WIRE CLOTH**, either **GALVANIZED** or **IRON**, over the methods employed in some mills. Its **SUPERIORITY** as a means of suspension of the product over wooden slatted and perforated iron floors, cordage, netting, etc., is apparent **AT A GLANCE**. Whether used as a floor, or for drying racks, it permits an unimpeded circulation of heat and air through the material drying, and possesses a **STRENGTH AND CLEANLINESS** unknown to other material. Prices and estimates or samples on application.

"National" Pressed Wire Cloth,

— IN —

IRON, STEEL, BRASS OR COPPER,

ALL MADE TO ORDER.

The following cuts are drawn to gauge, showing full size of Wire and Mesh of a few grades of this cloth. Samples of lighter, intermediate, or heavier grades on application.



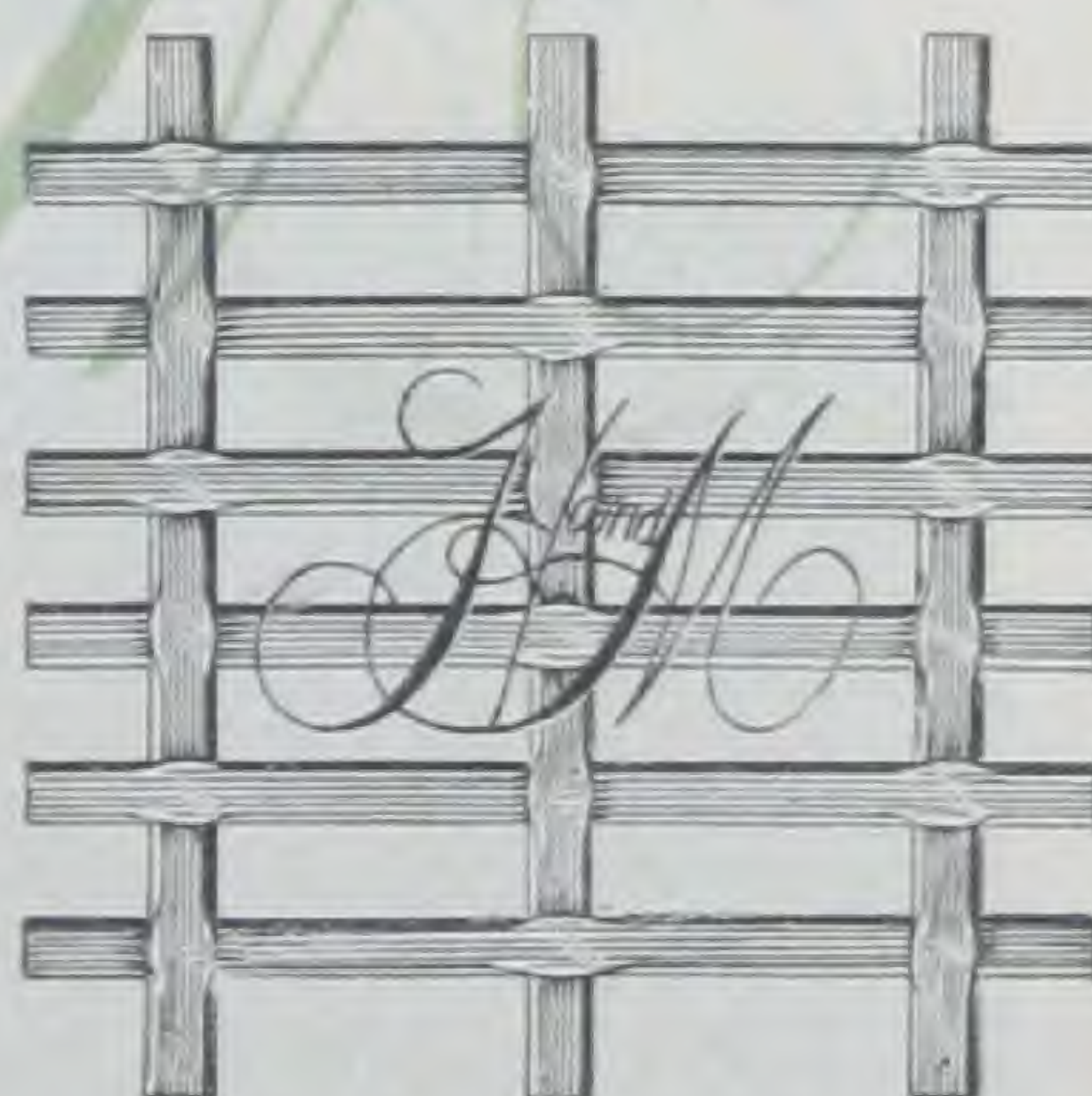
No. 3 Mesh, No. 12 Wire.



No. 3½ Mesh, No. 12 Wire.



No. 4 Mesh, No. 12 Wire.



No. 5x2 Mesh, No. 14 Wire.

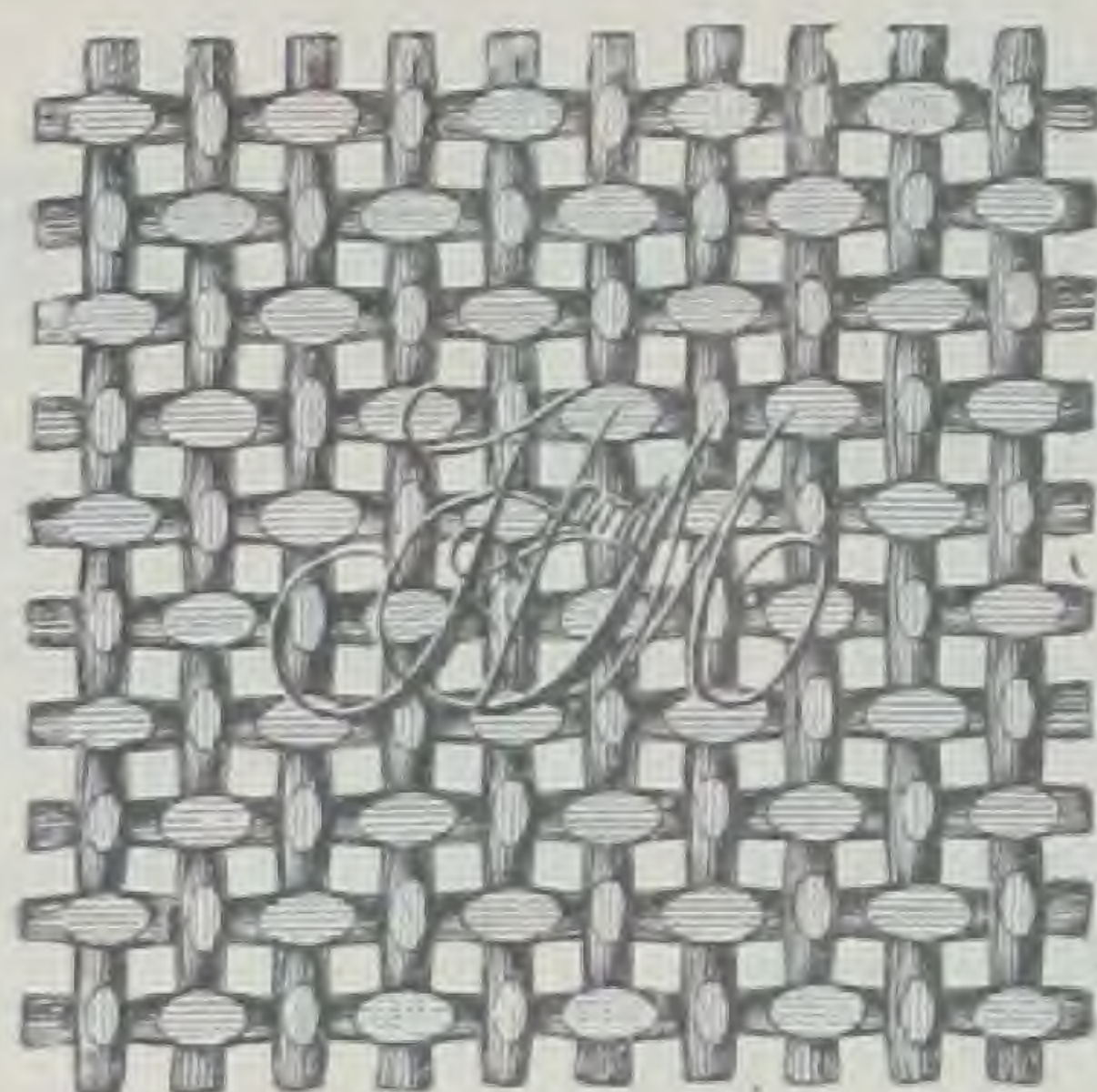


No. 5 Mesh, No. 13 Wire.



No. 6 Mesh, No. 14 Wire.

National Pressed Wire Cloth.—Continued.



No. 7 Mesh, No. 15 Wire.



No. 8 Mesh, No. 16 Wire.



No. 10 Mesh, No. 18 Wire.



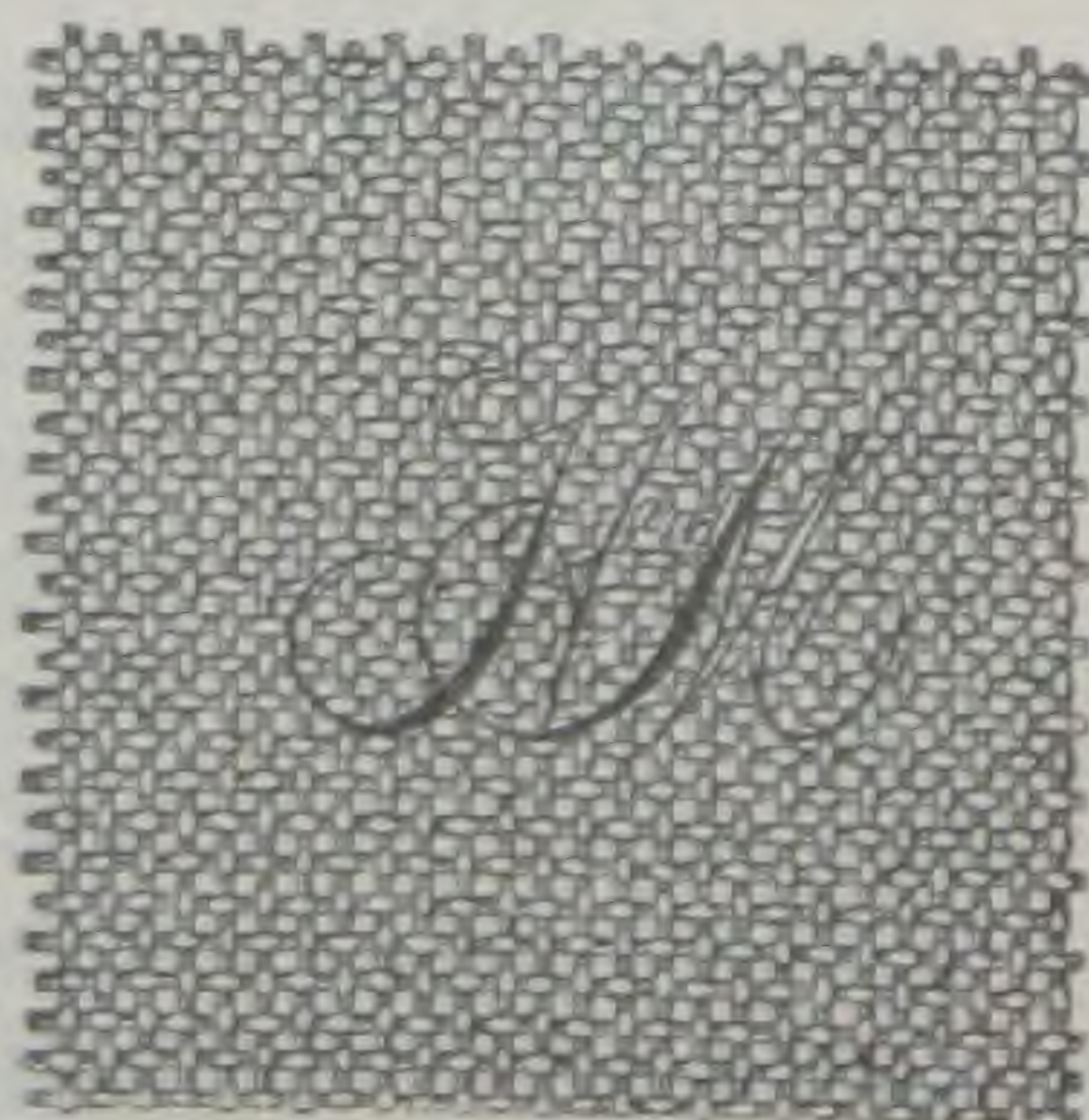
No. 12 Mesh, No. 19 Wire.



No. 14 Mesh, No. 20 Wire.



No. 16 Mesh, No. 22 Wire.



No. 18 Mesh, No. 23 Wire.



No. 20 Mesh, No. 24 Wire.

NATIONAL PRESSED WIRE CLOTH

AS A

Screening, Scouring, Cooling or Straining Surface.

OPEN AND EVEN WORK,

Steel, Iron, Brass or Copper.

Universal in application in many wet and dry processes
where perforated metal has proven inefficient.

Heavy Wire Cloth, evenly woven (of Iron, Steel, Brass or Copper Wire), is universally acknowledged to be superior to the perforated sheet metal heretofore used, from the fact that in the Wire Cloth greater strength and over forty per cent. more air or screening space is secured, making it more suitable and economical for use in Breweries, Dye Houses, Sugar Refineries, for Glucose, Starch and Paint Manufacturers, and for Rock Phosphates, Ores, etc., etc.

The diversity of uses in which Wire Cloth has of late years superseded perforated metal for screening purposes, clearly indicates its superiority. Larger holes or meshes (and closer together) of heavier material can be secured by a weaving process than by perforation, the latter method always being attended by extreme liability to fracture, and consequently close perforations in a heavy gauge of metal are rarely attempted; while all practical people have observed poor veins of metal in the sheets, which under the impact of substance treated open into fissures which speedily extend across the screen. The independence of each wire in the web with one another obviates any such result in the use of Wire Cloth. It wears uniformly, and is therefore preferred.

On the two preceding pages we show cuts of several different meshes, from which it will be readily seen that our claim, as regards a greater area of circulating surface over perforated metal, is sustained. We shall be pleased to furnish prices and information upon receipt of detail of requirements.

HEAVY ROLLED IRON OR STEEL WIRE CLOTH

—FOR—

MALT-KILN FLOORS.



No. 6 Mesh, No. 14 Wire.
The Standard Grade.



No. 7 Mesh, No. 15 Wire.
Occasionally used in treatment of small grain.

The above cuts show the perfectly smooth surface of the Rolled Wire Cloth, used for Malt-Kiln Floors, and **are drawn to show full size of Wire and Mesh.**

The subjoined cut represents our **PATENT SEAM** for joining the edges of the wire cloth, so as to leave a smooth surface for the shovel or other turning implement to work upon.



Samples of the Wire Cloth and Testimonials from maltsters who use these floors will be furnished on application.

The very satisfactory results attending the use of Rolled Wire Cloth Malt Floors, and the consequent indications that they must eventually **Supersede all other types of floors** have led us to devote particular attention to their manufacture. The advantages claimed by those who have used them are as follows :

It has been demonstrated by comparison with perforated sheet metal and tile floors, that the use of Wire Cloth affects **a saving of nearly one-half in fuel**, by reason of the great area of circulating surface, and the consequent readiness with which the heat ascends through it.

The other class of floors do not admit of so close a series of perforation through as heavy a gauge of material without a corresponding loss of strength, and it is consequently never attempted.

We are therefore enabled to claim fully three times the circulating surface or air space, thus reducing the incessant demands for fuel and labor in turning, and producing a thoroughly dry and pale grade of malt.

All maltsters have experienced the constant liability of sheet iron and tile floors to fracture, through poor veins of metal in former, and defective castings in the latter.

This is obviated by the use of Wire Cloth, for the reason that each wire constituting the web or drying surface is independent of the next one, and a break of a single wire **cannot extend**. It is made of the best selected stock, cold rolled, squarely trimmed, admits of easy seaming, and can be laid as readily as any floor in use. It dries quicker, is more economical in fuel and labor, and lasts twice as long.

In ordering Wire Kiln Floors, send diagram of the floor showing which way the floor beams, and the rods upon which the Wire Cloth lay run, with exact measurements from North to South and from East to West, which will enable us to cut the floor to the best advantage.

All floors are matched together and each sheet numbered before shipping, which if observed will avoid error and save much time in laying.

Sheets are furnished in lengths from 8 to 12 feet, and from 30 to 36 inches wide.

Price List of Heavy Rolled Wire Cloth

—FOR—

MALT-KILN FLOORS.

No. 6 Mesh, No. 14 Wire. 60 cts. per sq. ft. for wire cloth consumed in floor.

" 7 " " 15 " 60 " " " " " " " " " " " "

Discount.

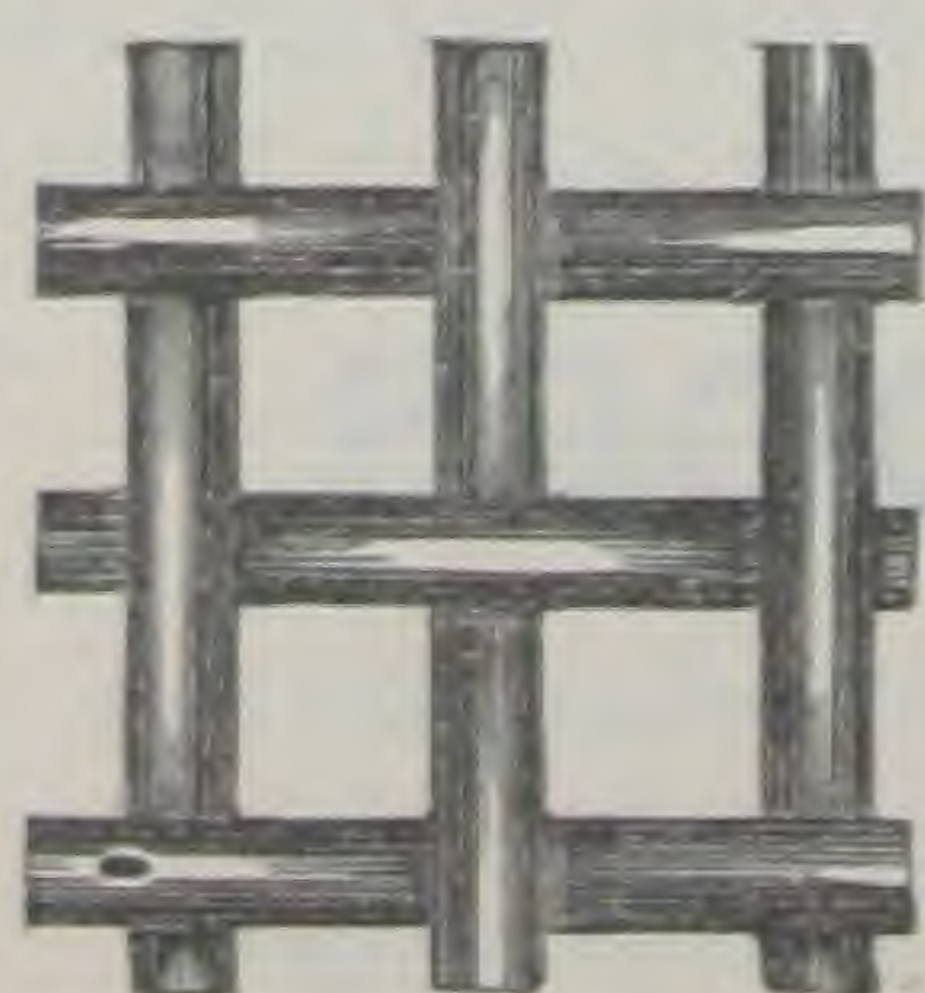
IRON AND STEEL

(DOUBLE CRIMPED)

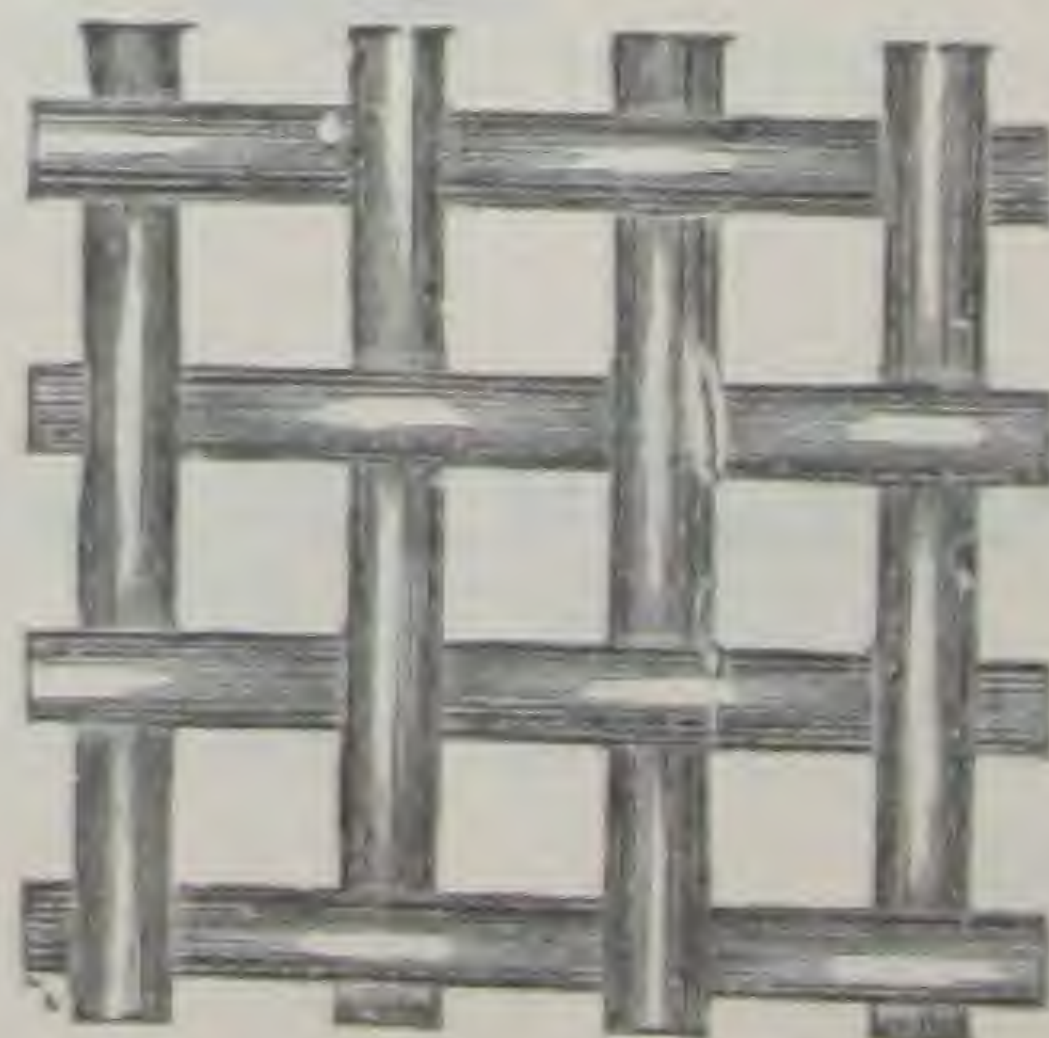
Locomotive Spark Wire Cloth.



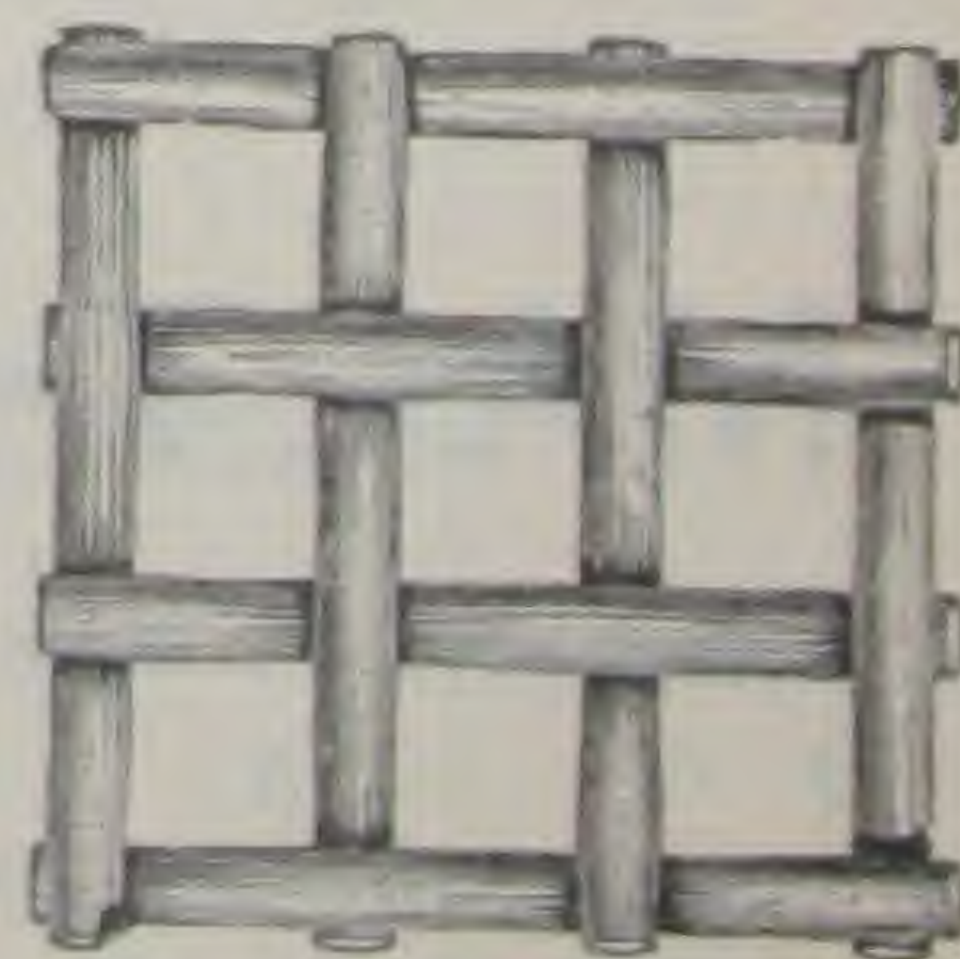
Standard Grade, No. $3\frac{1}{2}$ Mesh, No. 12 Wire.



No. $2\frac{1}{2}$ Mesh, No. 10 Wire.

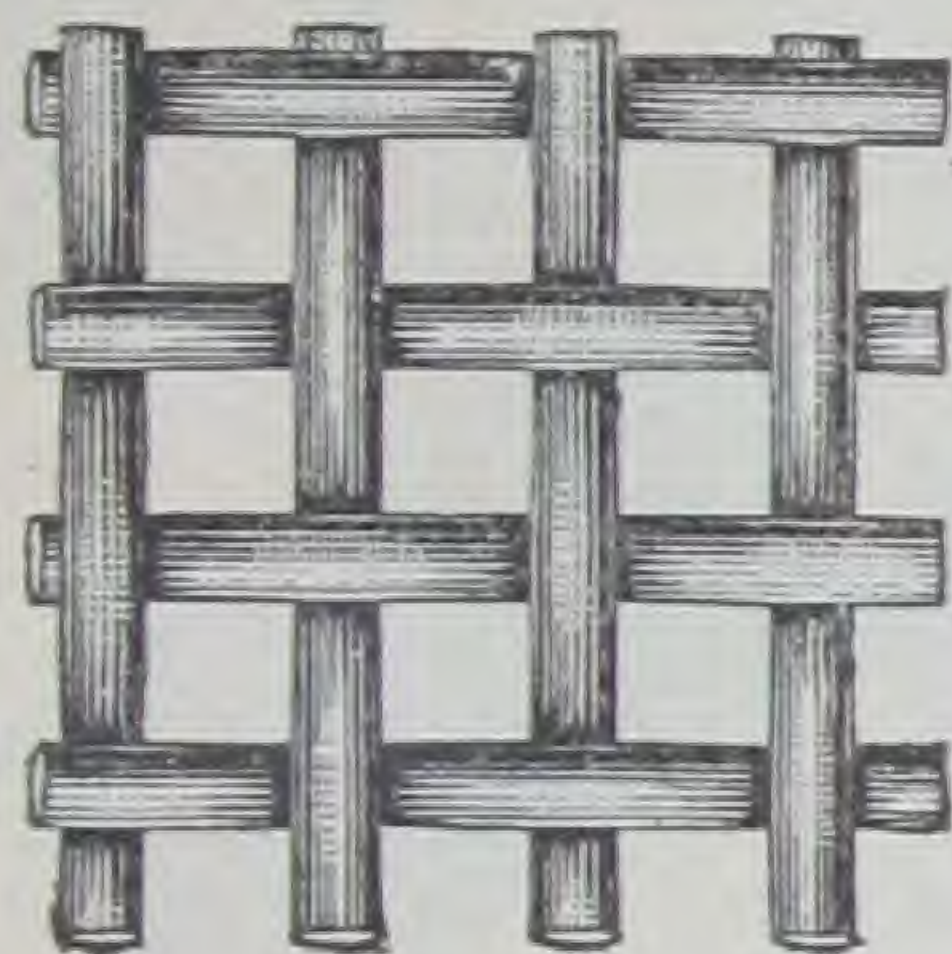


No. 8 Mesh, No. 11 Wire.

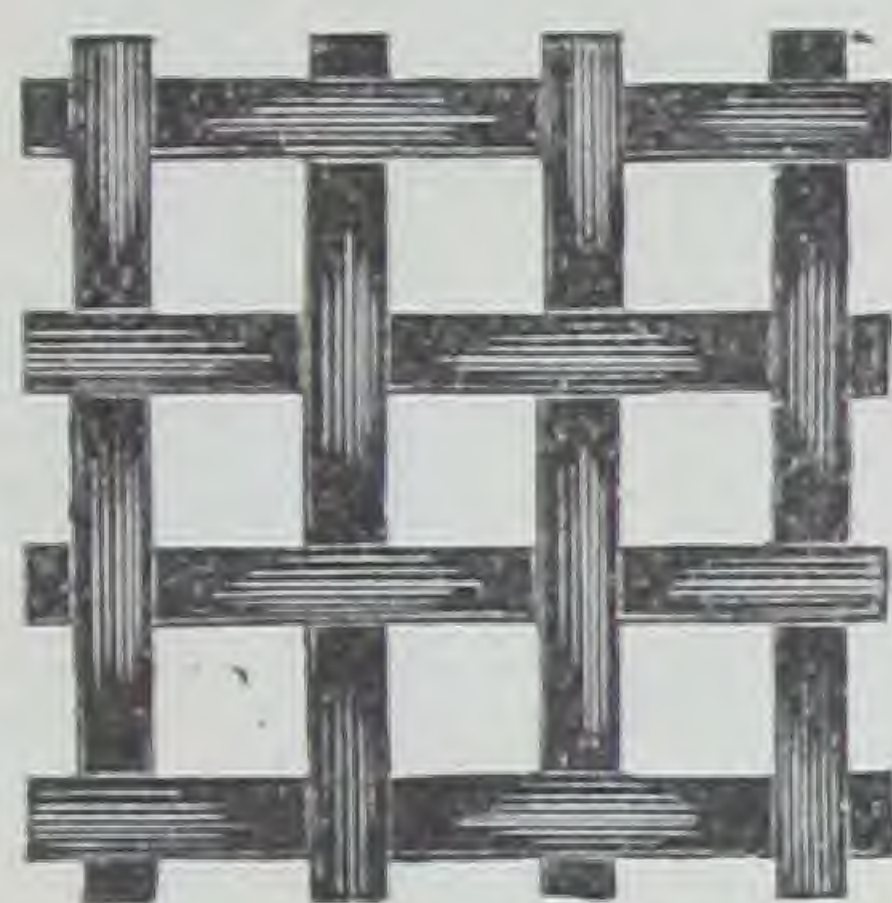


No. 8 Mesh, No. 12 Wire.

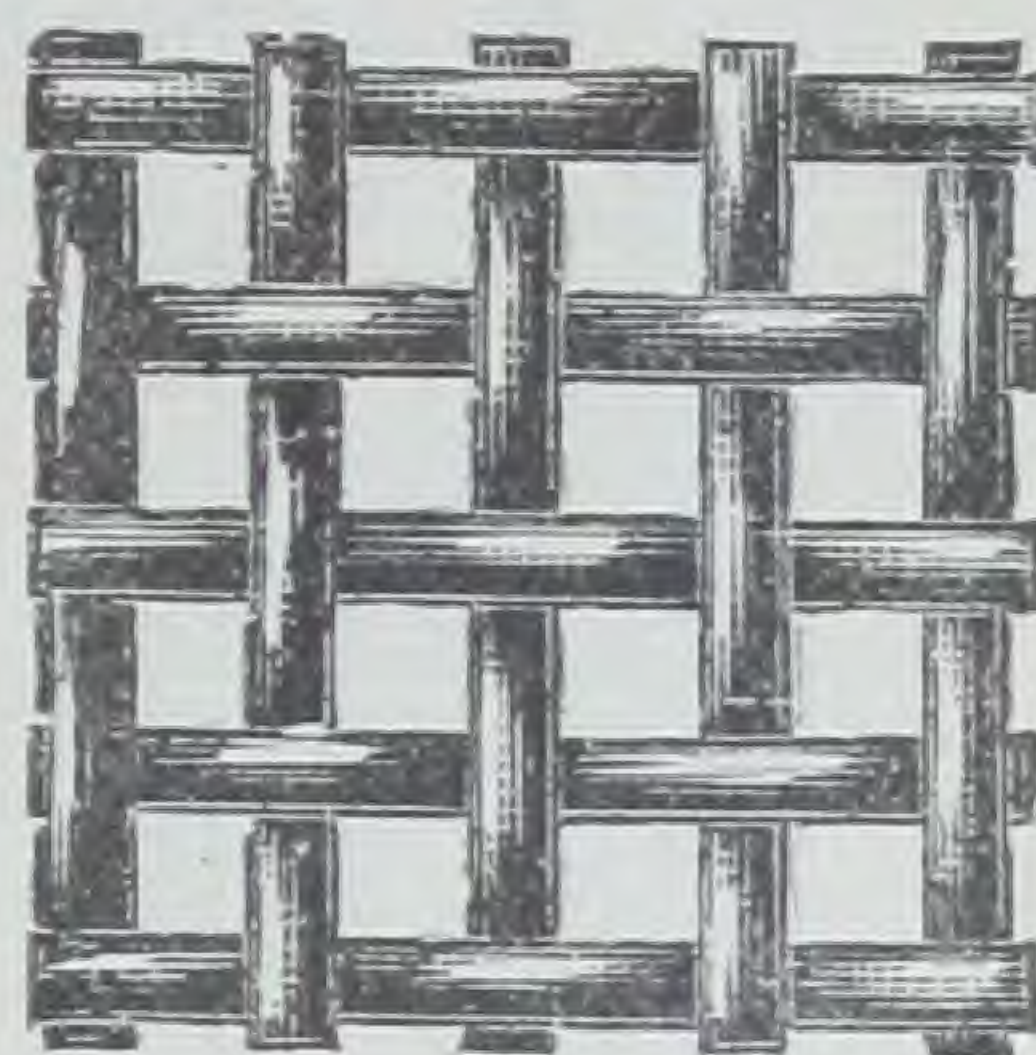
Locomotive Spark Wire Cloth.—Continued.



No. 3½ Mesh, No. 12 Wire.



No. 3½ Mesh, No. 13 Wire.



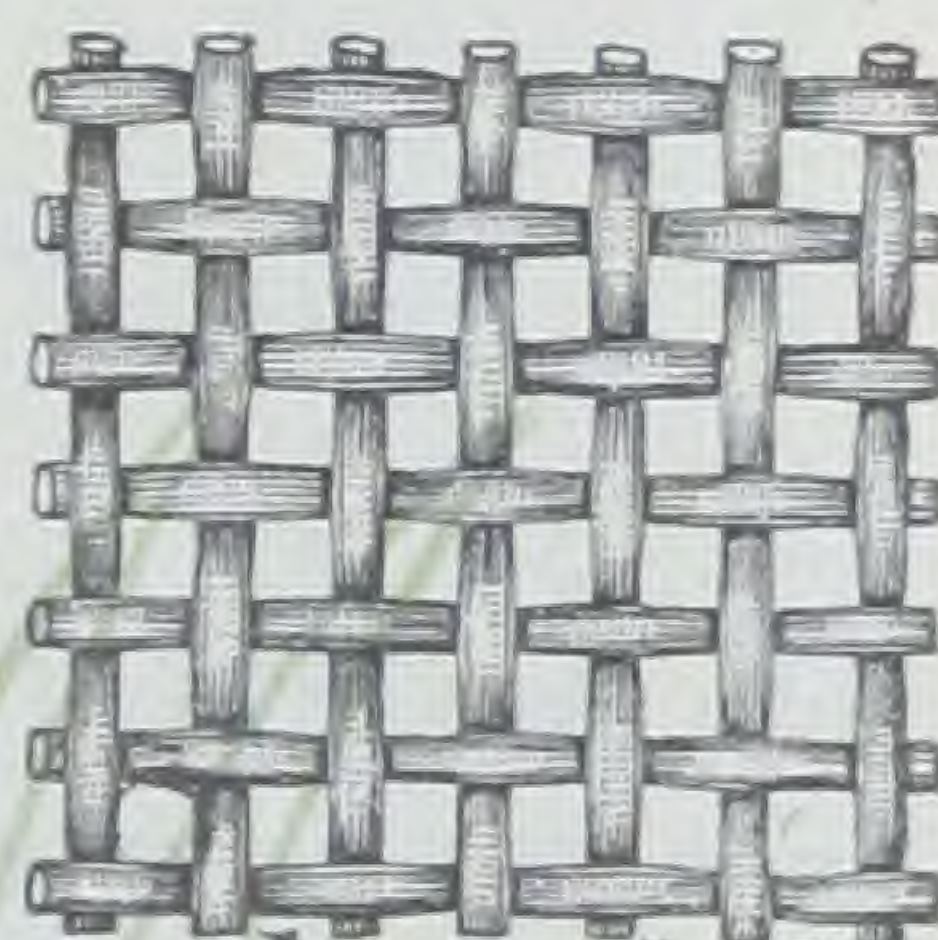
No. 4 Mesh, No. 12 Wire.



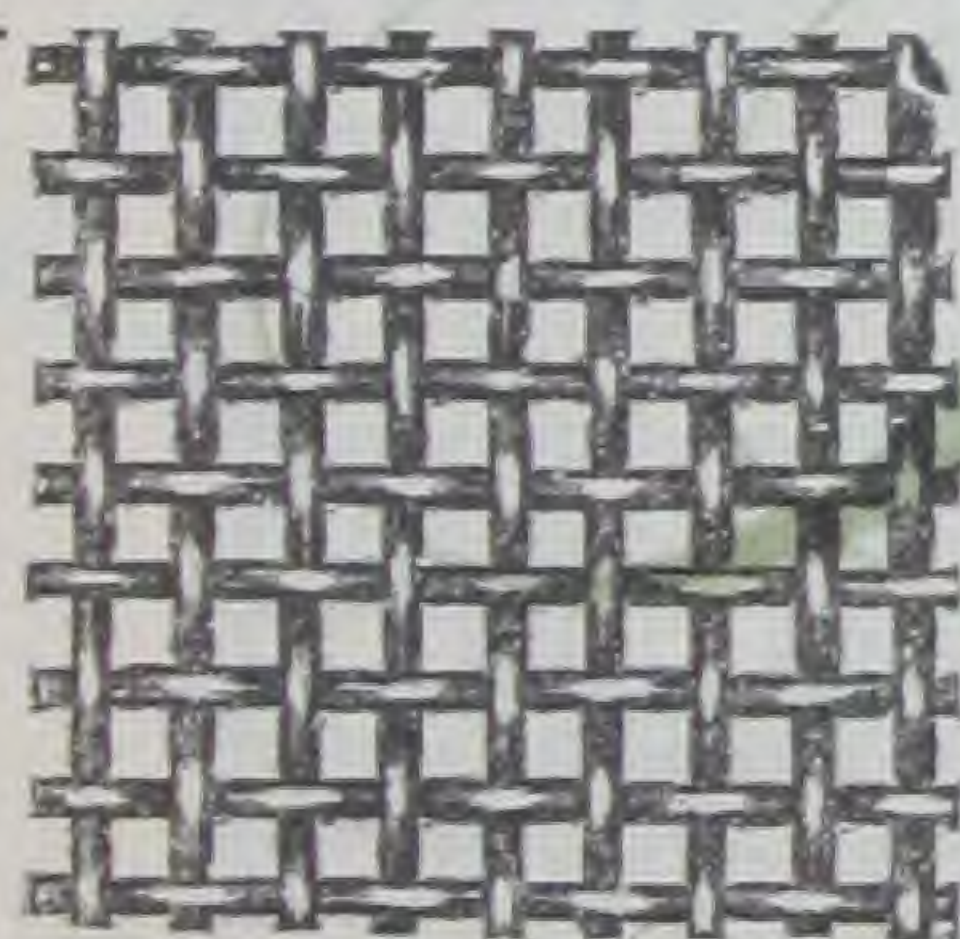
No. 4 Mesh, No. 14 Wire.



No. 5 Mesh, No. 15 Wire.



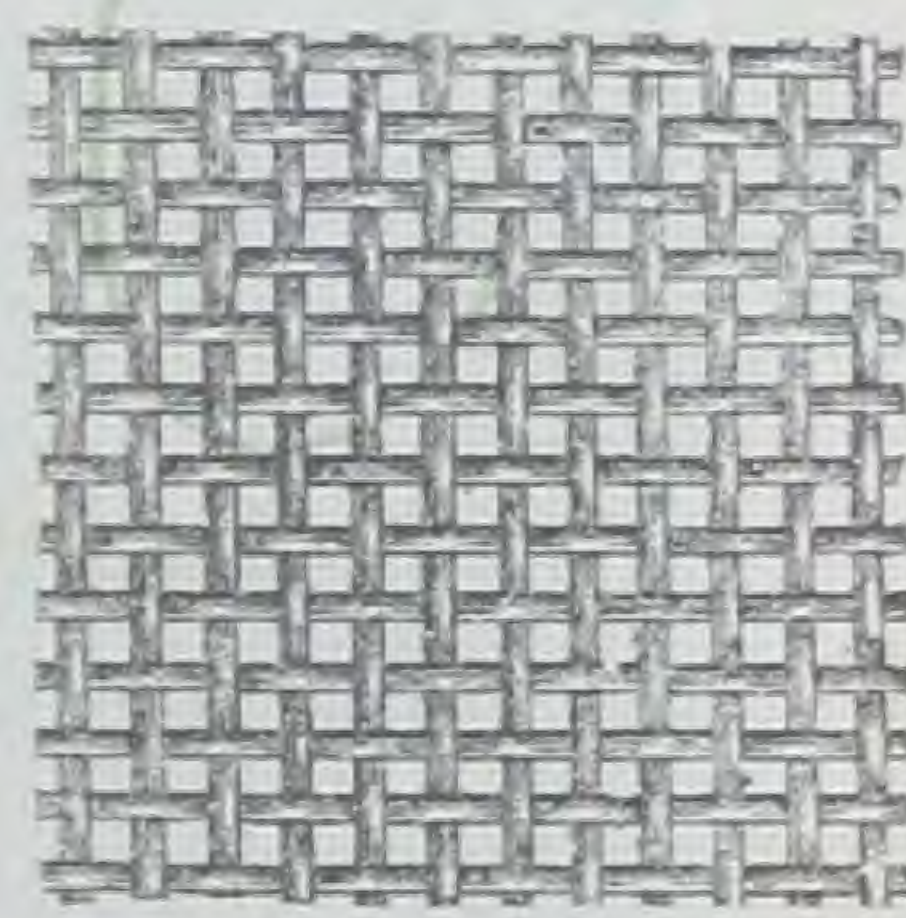
No. 6 Mesh, No. 16 Wire.



No. 8 Mesh, No. 18 Wire.



No. 10 Mesh, No. 19 Wire.



No. 12 Mesh, No. 20 Wire.

We invite the attention of Purchasing Agents and Superintendents of Railways to the foregoing cuts of Spark Wire Cloth for Coal-Burning Locomotives, in all of which is shown the full size of wire and space or opening. The No. 3½ mesh made of No. 12 gauge wire being used by many of the largest railways in the country as their standard, we therefore long since adopted a cut of this mesh and wire (as shown upon preceding page) as our **Trade Mark**. Appreciating the fact that the style of engine, the class of work, and the quality or kind of coal used in different sections of the country, will prevent the universal adoption of this grade, we present several different grades and meshes for consideration.

Price List of Iron or Steel Crimped Spark Wire Cloth.

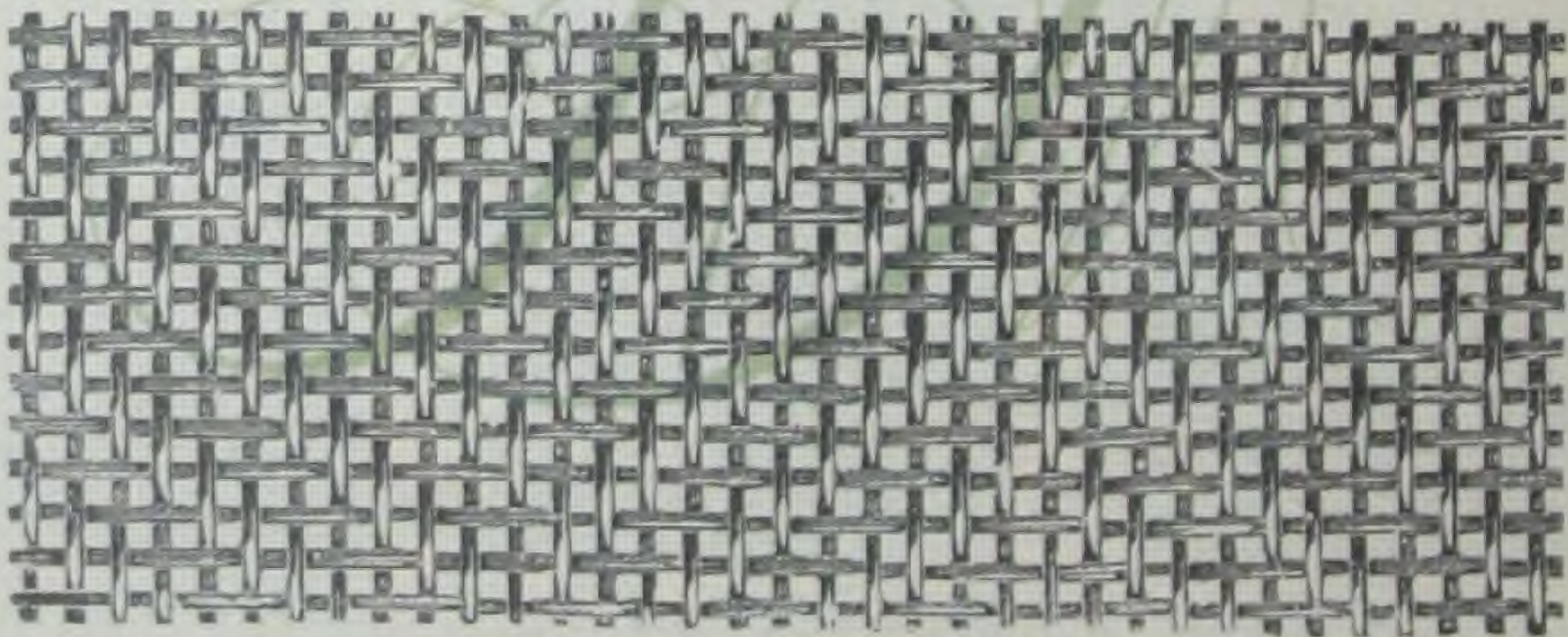
No length less than 100 feet shall be considered a Roll.

No. 2	Mesh, No. 9	Wire	48	cents	per	square	foot.
" 2½	" "	" 10	48	"	"	"	"
" 3	" "	" 10	60	"	"	"	"
" 3	" "	" 11	48	"	"	"	"
" 3	" "	" 12	38	"	"	"	"
" 3½	" "	" 11	60	"	"	"	"
" 3½	" "	" 12	48	"	"	"	"
" 3½	" "	" 13	38	"	"	"	"
" 4	" "	" 12	60	"	"	"	"
" 4	" "	" 13	48	"	"	"	"
" 4	" "	" 14	38	"	"	"	"
" 5	" "	" 15	38	"	"	"	"
" 6	" "	" 16	38	"	"	"	"
" 7	" "	" 17	38	"	"	"	"
" 8	" "	" 18	38	"	"	"	"
" 10	" "	" 20	38	"	"	"	"

Discount,

Twilled Spark Wire Cloth,

FOR WOOD-BURNING LOCOMOTIVES.



No. 10 Mesh Twilled Spark Wire Cloth, No. 20 Wire.

The Twilled Spark Wire Cloth is not kept in stock, but can be made to order in any required mesh, grade or width. Below we give a memorandum of prices for a medium grade:

Price List of Twilled Spark Wire Cloth.

No length less than 100 feet shall be considered a Roll.

No. 4	Mesh, No. 16	Wire	27	cents	per	square	foot.
" 5	" "	" 17	27	"	"	"	"
" 6	" "	" 18	27	"	"	"	"
" 8	" "	" 20	27	"	"	"	"
" 10	" "	" 22	27	"	"	"	"
" 12	" "	" 23	27	"	"	"	"

Discount,

Exclusive Manufacturers

OF THE

HEAVY GRADE

IRON,

STEEL,

BRASS

— AND —

COPPER

WIRE CLOTH

— FOR —

Mining Purposes,

KNOWN AS THE

"NATIONAL"

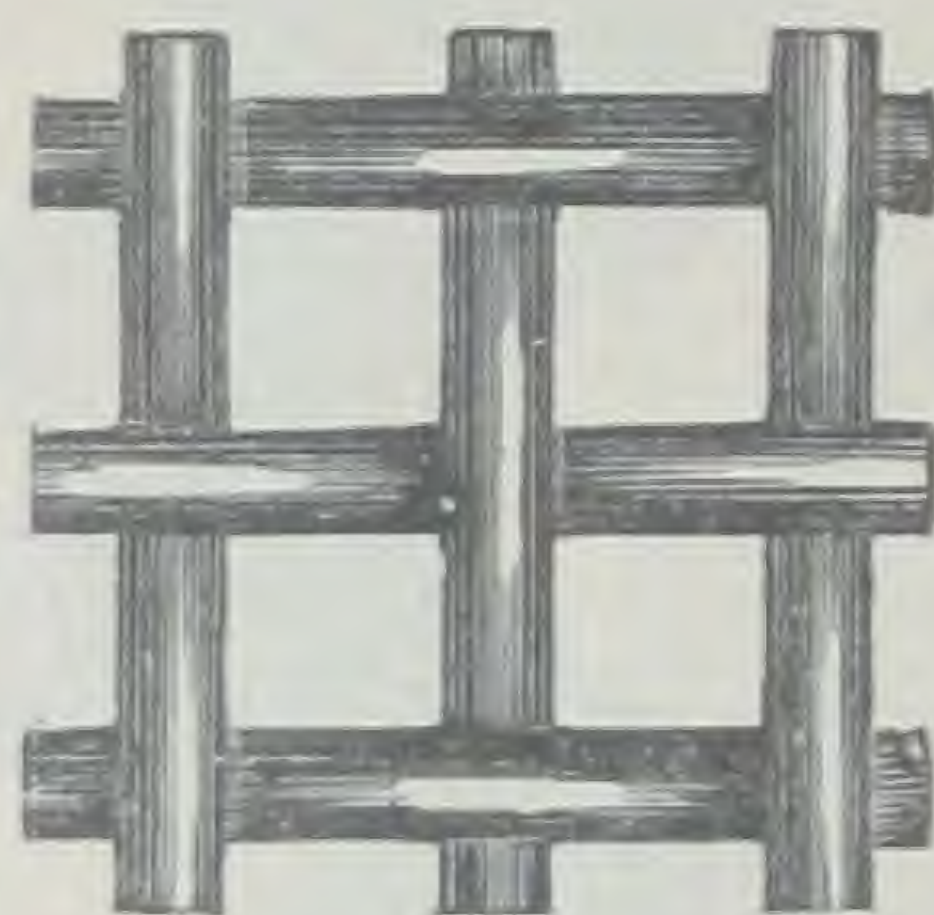
Battery and Bolting Wire Cloth.



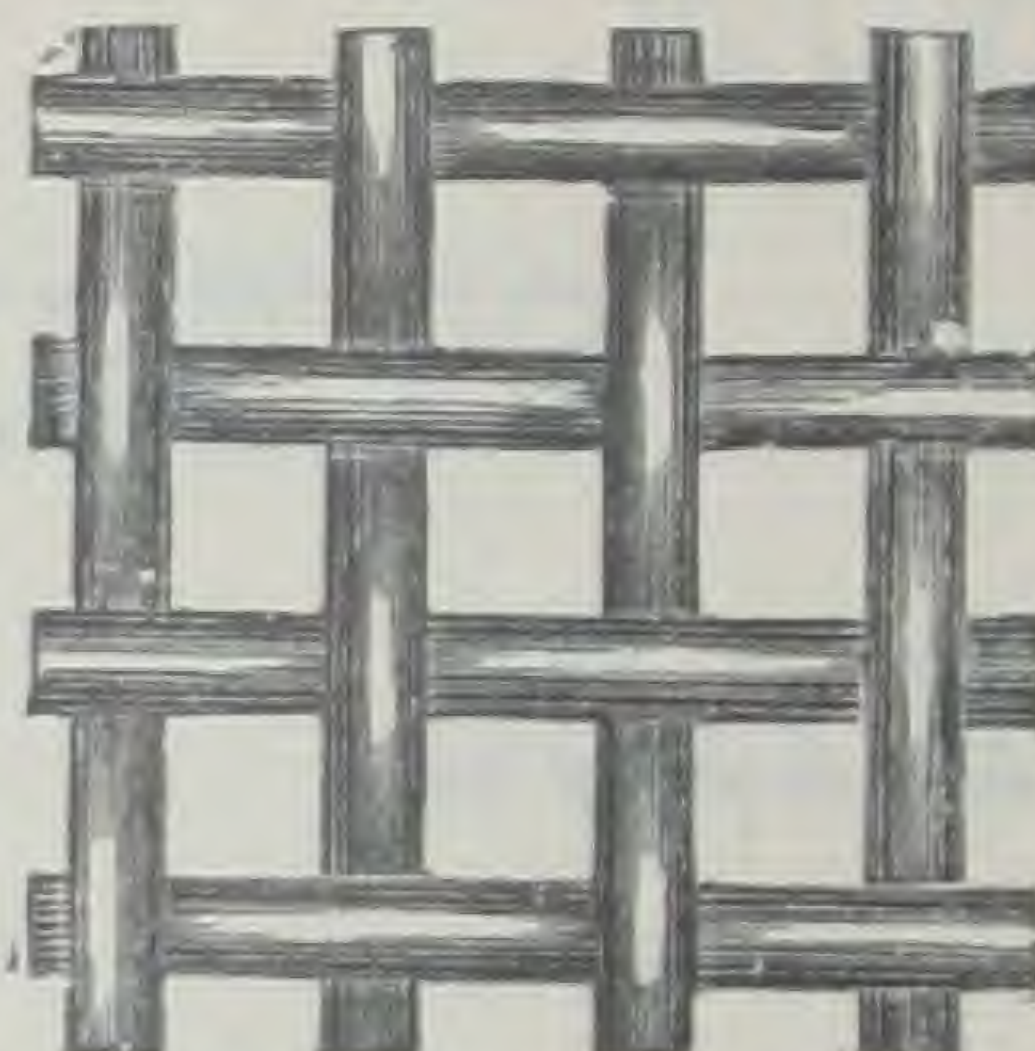
[Registered October 8th, 1878.]

NATIONAL BATTERY WIRE CLOTH.

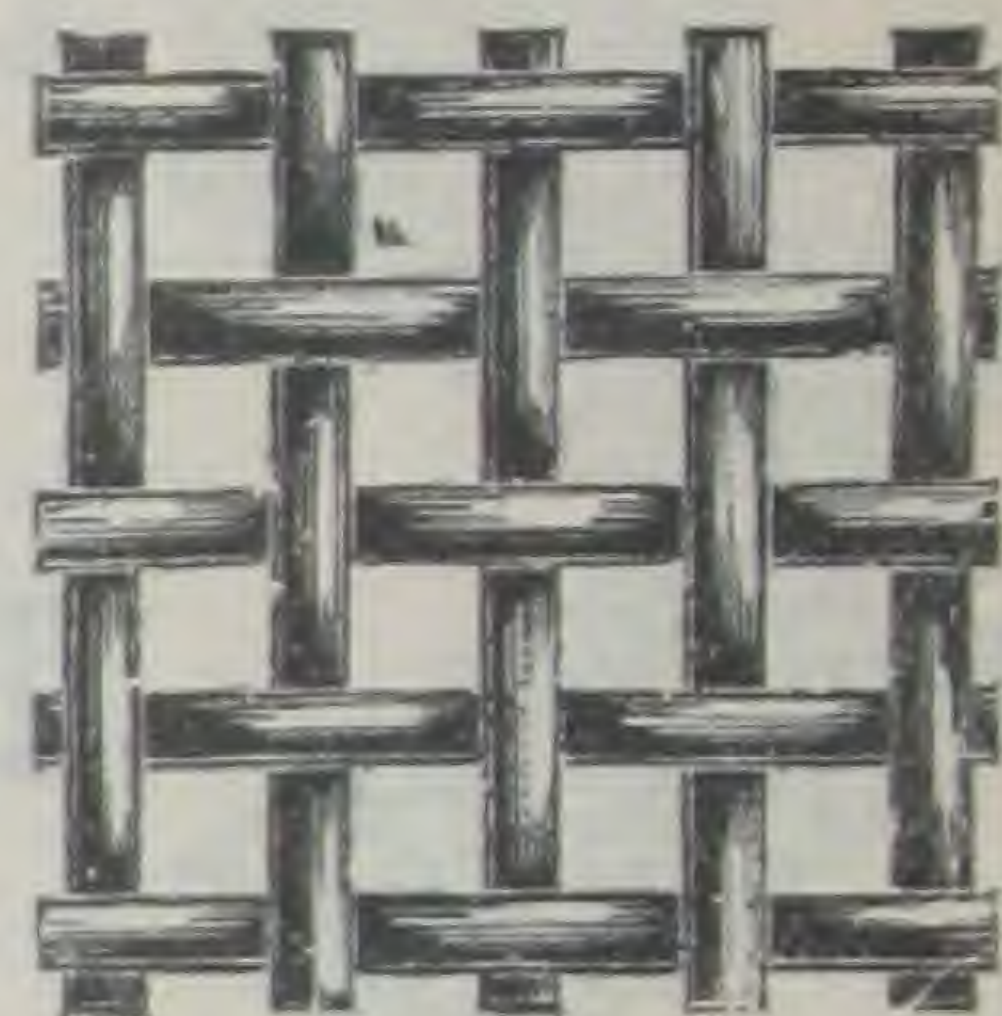
The following cuts are drawn to gauge, showing full size of Wire and Mesh.



No. 2½ Mesh, No. 9 Wire.



No. 3 Mesh, No. 10 Wire.



No. 4 Mesh, No. 12 Wire.



No. 5 Mesh, No. 13 Wire.



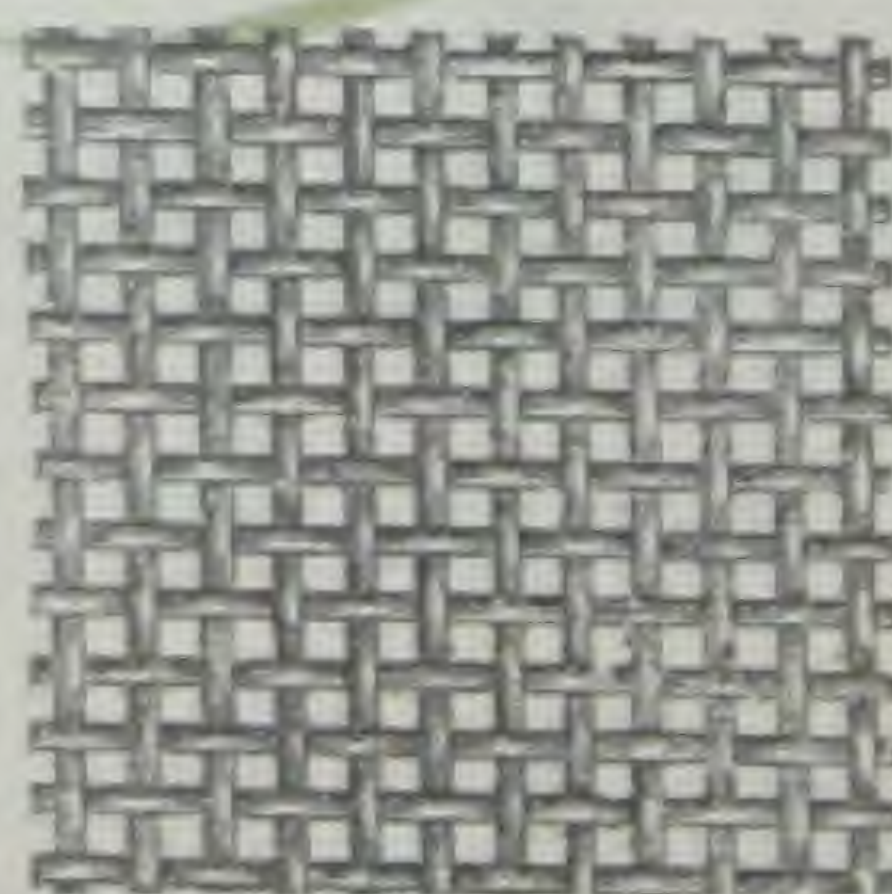
No. 6 Mesh, No. 14 Wire.



No. 8 Mesh, No. 16 Wire.



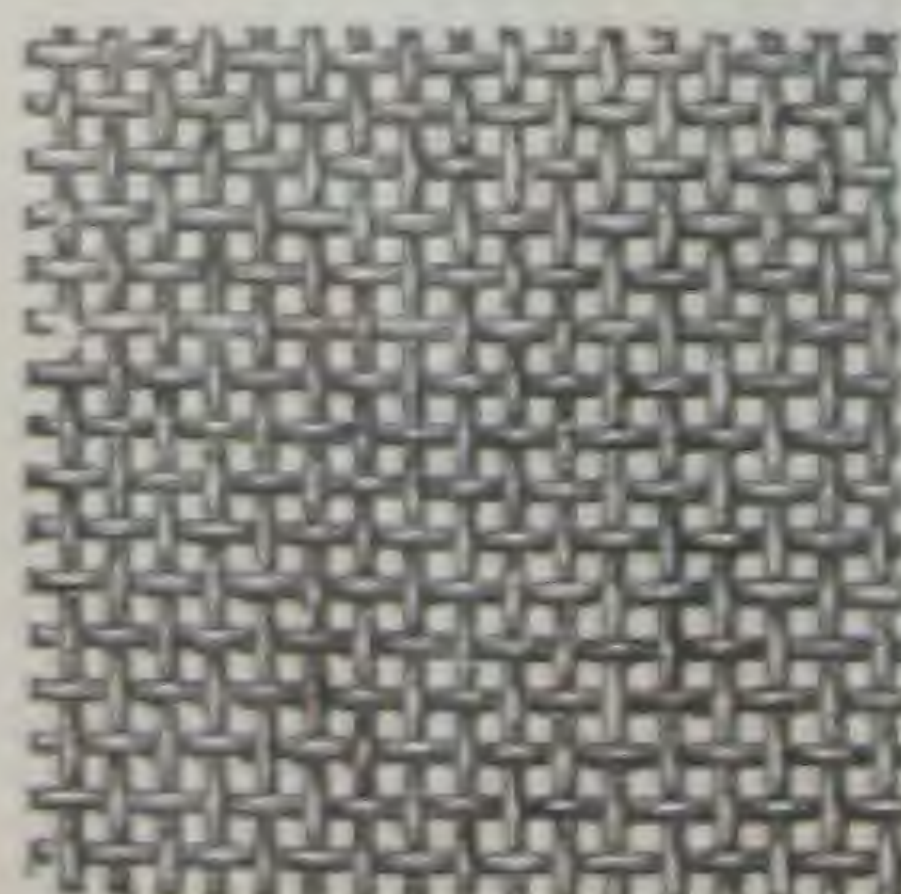
No. 10 Mesh, No. 18 Wire.



No. 12 Mesh, No. 19 Wire.



No. 14 Mesh No 20 Wire.



No. 16 Mesh, No. 22 Wire.



No. 15 Mesh, No. 23 Wire.

NATIONAL BATTERY WIRE CLOTH.—Continued.

FOR ALL KINDS OF
PRECIOUS ORE SCREENING
—IN—
Battery, Jig and Concentrator Work.

We do not consider that either as manufacturers, or in behalf of our product, we require any special introduction to the Mining Industry.

Long recognized as the pioneer house in the manufacture of Wire Cloth for Mining Purposes, the quality, quantity and diversified product of our Works for nearly 30 years have made the firm name of HOWARD & MORSE synonymous with

EVERYTHING IN WIRE.

The rapid development of the mining industry, and the systematic treatment of ores, led us at its earliest stages to acquaint ourselves thoroughly with the wants of the workers, and that we have succeeded is best attested by our increased sales and the extended and favorable reputation earned by our goods wherever used. The construction and operation of specially designed looms to weave heavy gauges of wire in small meshes, and the employment of the best selected stock of metal for manufacture, have insured to the buyer a superior class of goods, both in make and quality.

THE SUPERIORITY OF WIRE CLOTH

over perforated metals has been demonstrated in the many methods of ore treatment.

Our particular attention has been devoted to the manufacture of the heaviest grades of Wire Cloth, and by the term "cloth" we

NATIONAL BATTERY WIRE CLOTH.—Continued.

mean any woven wire or iron from 2 inch space made of $\frac{3}{4}$ inch round rods, to **200 meshes to the lineal inch, or 40,000 meshes to the square inch.**

We therefore show on the preceding pages a few samples of the **Regular Battery Grades** drawn to exact size of mesh and gauge of wire. Intermediate, lighter, heavier or special goods in stock or made to suit any requirement.

In the reduction processes, all practical miners appreciate the extreme nicety of mesh and substantiality of wire required to secure uniform or desired results.

A square mesh of heavy wire is the best method of accomplishment. The uniformity of mesh can be retained only by the use of heavy wire, inasmuch as the process of weaving necessarily crimps it slightly, and these wires interlocking at intersecting points, preserve the uniformity of the mesh under its severe contact with the ore.

Under no circumstances should the miner use lighter grades than those named in the following list (page 39) for screening ore. The additional outlay in the first cost is more than offset by the expense of more frequent renewal of lighter cloth and loss of time.

We would instance that the mention of the mesh alone implies nothing unless associated with mention of the gauge of wire, as all meshes are made of different gauges of wire to meet the requirements of a variety of other purposes.

THE NATIONAL BATTERY AND BOLTING WIRE CLOTH,

by use of the grades we specify in our list, has been conceded to be superior to any in the market.

Price List of Heavy National Battery Wire Cloth.

No length less than 100 feet shall be considered a Roll.

No. 2 Mesh, No. 8 Wire.....	60	cents	per	square	foot.
“ 2½ “ “ 9 “	60	“	“	“	“
“ 3 “ “ 10 “	60	“	“	“	“
“ 3½ “ “ 11 “	60	“	“	“	“
“ 4 “ “ 12 “	60	“	“	“	“
“ 5 “ “ 13 “	60	“	“	“	“
“ 6 “ “ 14 “	60	“	“	“	“
“ 7 “ “ 15 “	60	“	“	“	“
“ 8 “ “ 16 “	60	“	“	“	“
“ 9 “ “ 17 “	60	“	“	“	“
“ 10 “ “ 18 “	60	“	“	“	“
“ 12 “ “ 19 “	60	“	“	“	“
“ 14 “ “ 20 “	60	“	“	“	“
“ 16 “ “ 22 “	60	“	“	“	“
“ 18 “ “ 23 “	60	“	“	“	“
“ 20 “ “ 24 “ Steel Tempered.....	62	“	“	“	“
“ 24 “ “ 26 “ “ “	65	“	“	“	“
“ 30 “ “ 28 “ “ “	66	“	“	“	“
“ 35 “ “ 30 “ “ “	67	“	“	“	“
“ 40 “ “ 31 “ “ “	68	“	“	“	“
“ 45 “ “ 33 “ “ “	70	“	“	“	“
“ 50 “ “ 34 “ “ “	72	“	“	“	“
“ 55 “ “ 35 “ “ “	78	“	“	“	“
“ 60 “ “ 35 “ “ “	84	“	“	“	“

Discount, from No. 2 to 18 Mesh, inclusive.....	per cent.
“ “ “ 20 to 60 “ “	“ “

Price List of Heavy National Bolting Wire Cloth.

No length less than 100 feet shall be considered a Roll.

No. 10 Mesh, No. 20 Wire....	38	cents	per	square	foot.
“ 12 “ “ 21 “	38	“	“	“	“
“ 14 “ “ 22 “	38	“	“	“	“
“ 16 “ “ 23 “	38	“	“	“	“
“ 18 “ “ 24 “	38	“	“	“	“
“ 20 “ “ 26 “ Steel Tempered	43	“	“	“	“
“ 24 “ “ 28 “ “ “	46	“	“	“	“
“ 30 “ “ 30 “ “ “	47	“	“	“	“
“ 35 “ “ 32 “ “ “	47	“	“	“	“
“ 40 “ “ 33 “ “ “	48	“	“	“	“
“ 45 “ “ 34 “ “ “	53	“	“	“	“
“ 50 “ “ 35 “ “ “	59	“	“	“	“
“ 55 “ “ 36 “ “ “	61	“	“	“	“
“ 60 “ “ 36 “ “ “	68	“	“	“	“
“ 64 “ “ 37 “ “ “	75	“	“	“	“
“ 70 “ “ 38 “ “ “	80	“	“	“	“
“ 74 “ “ 39 “ “ “	90	“	“	“	“
“ 80 “ “ 40 “ “ “	105	“	“	“	“
“ 90 “ “ 42 “ “ “	125	“	“	“	“

Discount, from No. 10 to 18 Mesh, inclusive.....	per cent.
“ “ “ 20 to 60 “ “	“ “
“ “ “ 64 to 90 “ “	“ “

The National Battery and Bolting Wire Cloth is made of either Iron, Steel, Brass, Copper, or Phosphor-Bronze. The prices above are for cloth made of Iron or Steel Wire. For prices of Wire Cloth made of Brass, Copper, or Phosphor-Bronze, see the Manufacturers' Price List for Brass and Copper Wire Cloth, upon pages 45 to 48, inclusive.

National Steel-Tempered Bolting Cloth,

— FOR —

CENTRIFUGAL REELS, BRAN DUSTERS, PURIFIERS, ETC.



[Registered October 8th, 1878.]

We also manufacture a lighter grade of Steel-Tempered Bolting Wire Cloth, which is used in connection with the Tinned Milling Grade of cloth in the manufacture of the new process flour by roller mill. This light grade Bolting Cloth is manufactured with care equal to that bestowed upon the heavier grade. We reduced the size of wire to enable us to meet a demand for a cheaper article than our heavy grade. Below we give the price of our regular grade of Light and Tinned, which grade can be varied at pleasure to suit purchasers.

Price List of Light Grade Steel-Tempered Bolting Wire Cloth.

No length less than 100 feet shall be considered a Roll.

No. 10 Mesh, No. 23 Wire	22 cents per square foot.
12 " 24 "	22 " " "
14 " 25 "	22 " " "
16 " 26 "	22 " " "
18 " 27 "	22 " " "
20 " 29 "	24 " " "
24 " 30 "	30 " " "
30 " 31 "	37 " " "
35 " 33 "	40 " " "
40 " 34 "	44 " " "
45 " 35 "	48 " " "
50 " 36 "	52 " " "
55 " 37 "	56 " " "
60 " 38 "	60 " " "

Discount,

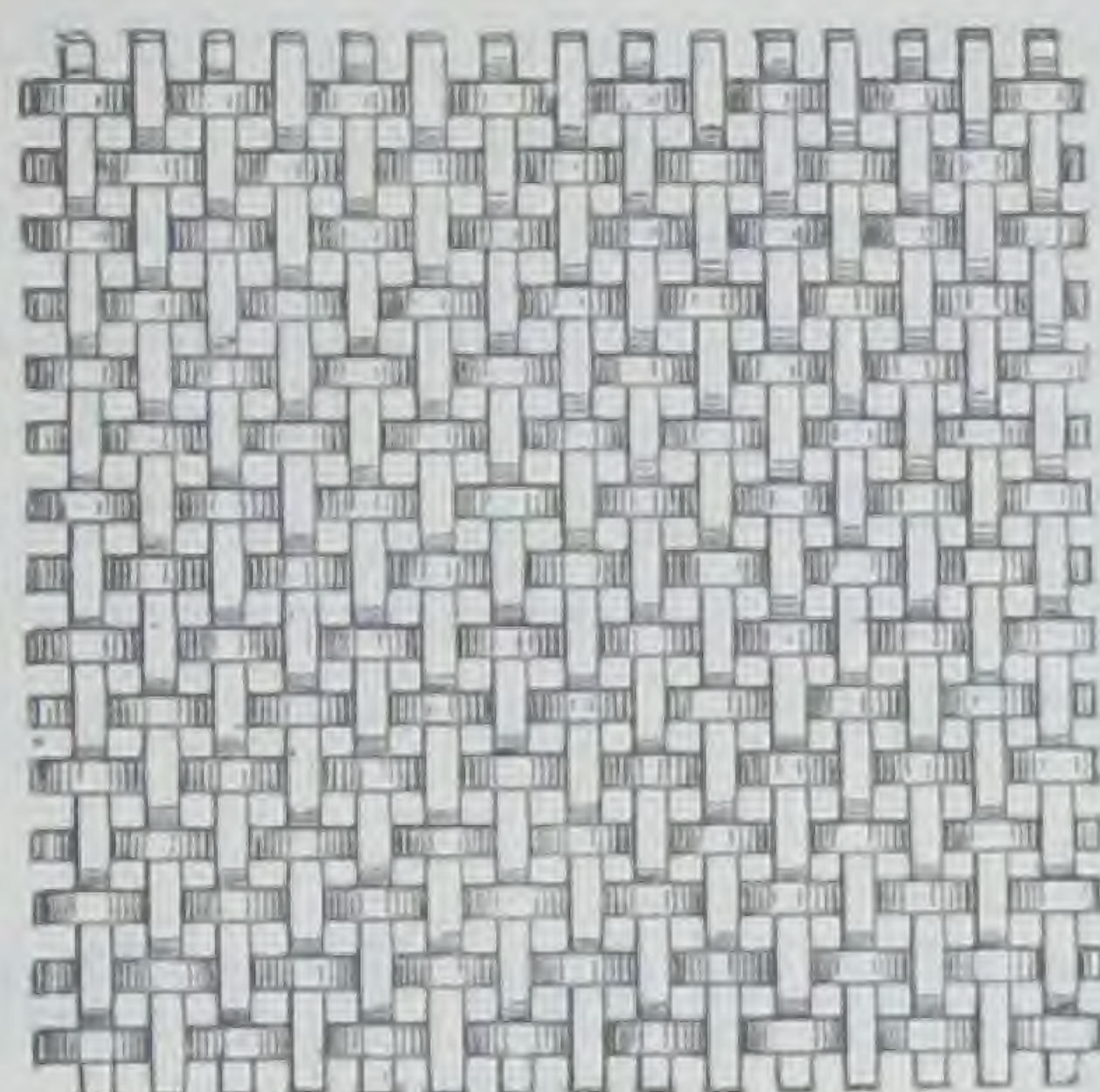
Price List of Tinned Milling Grade Wire Cloth.

No length less than 100 feet shall be considered a Roll.

No. 10 Mesh, No. 25 Wire	14 cents per square foot.
12 " 26 "	14 " " "
14 " 27 "	15 " " "
16 " 28 "	15 " " "
18 " 29 "	15 " " "
20 " 30 "	20 " " "
22 " 31 "	22 " " "
25 " 32 "	22 " " "
26 " 33 "	23 " " "
28 " 34 "	23 " " "
30 " 34 "	23 " " "
35 " 35 "	30 " " "
40 " 36 "	36 " " "

Discount,

SQUARE WIRE SMUT CLOTH.



No. 10 Mesh, No. 18 Square Wire.

(Above cut is drawn to gauge, showing full size of Wire and Mesh.)

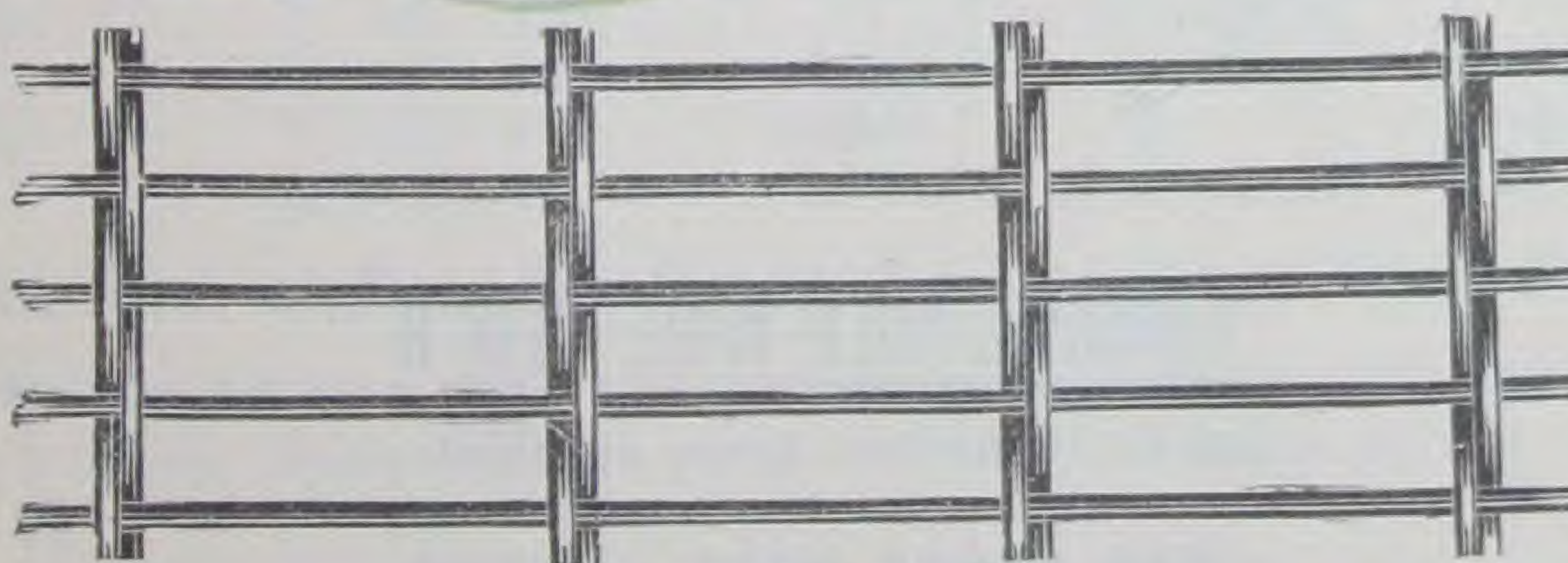
We show but one mesh and grade of this cloth, from the fact that No. 10 mesh from No. 18 Wire is the mesh and grade generally used. This cloth is manufactured from the best of Norway rods. Its efficacy as a surface for its designed purpose is so generally known that further comment is unnecessary. We are prepared to make to order such meshes, widths and grades as may be required.

Price List of Square Wire Smut Cloth.

No length less than 100 feet shall be considered a Roll.

Nos. 4 to 10 Mesh, Stout	\$0.75 per square foot.
" 4 to 10 " Extra Stout	1.00 " " "

WOVEN WIRE WINDOW-GUARD CLOTH.



No. 1 x 4 Mesh, No. 17 Wire.

(Above cut is drawn to gauge, showing full size of Wire and Mesh.)

Woven Wire Guard Cloth is made expressly as a protection to Church, School and Factory Windows, against stones. It is woven and rolled up in the same manner as Square Mesh Wire Cloth. We furnish it in plain iron, or galvanize it after being made, which solders each wire where it crosses another, thereby adding greatly to its strength, durability and appearance.

Prices of Woven Wire Window-Guard Cloth.

No length less than 100 feet shall be considered a Roll.

No. 1 x 4 Mesh, made of No. 17 Wire.....	15 cents per square foot,
--	---------------------------

STEEL RICE WIRE CLOTH.

This Wire Cloth is always made to order, there being so great a variety of cleaning machinery and consequent variation of process based upon the opinion or experience of the miller, the difference in size of the grain in different seasons or sections, that it is impossible to establish a standard grade of Wire Cloth for this purpose. We however enumerate below a few grades and special meshes as a guide to millers. We use the familiar or technical terms in their description. When ordering, if possible, always send a sample of the cloth wanted.

Price List of Rice Wire Cloth.

No length less than 100 feet shall be considered a Roll.

No. 8 Mesh, No. 19 Wire		.....	32	cents per square foot.			
" 8	"	" 20	"	.....	27	"	"
" 9	"	" 19	"	.....	38	"	"
" 9	"	" 20	"	.....	32	"	"
" 9	"	" 21	"	.....	27	"	"
" 9	"	" 22	"	.....	22	"	"
" 9	"	" 23	"	.....	17	"	"
" 12	"	Brush, No. 19 Wire	.....	60	"	"	"
" 12	"	" " 20	"	.....	48	"	"
" 12	"	Douse, " 21	"	.....	38	"	"
" 12x14	"	Brush, "19&20	"	.....	60	"	"
" 14	"	" " 20	"	.....	60	"	"
" 14	"	" " 21	"	.....	48	"	"
" 14	"	" " 22	"	.....	38	"	"
" 16	"	Small Brush, No. 22 Wire	.....	60	"	"	"
" 16	"	" " " 23	"	.....	38	"	"
" 18	"	Flour, " 23	"	.....	60	"	"
" 5x5	"	Rough, " 18	"	.....	22	"	"
" 9x3	"	Small, " 19&23	"	.....	27	"	"
" 8x $\frac{3}{8}$	"	" " 18&21	"	.....	27	"	"
" 1 $\frac{1}{4}$ x9	"	Grass Seed, " 16&20	"	.....	32	"	"

FANNING-MILL WIRE CLOTH.

Prices furnished upon application.

FIRE-PROOF WIRE LATHING.

Woven 36 inches wide.

No. 2 $\frac{1}{2}$ Mesh, No. 17 Galvanized Wire		.....	82	cents per sq. yard.			
" "	"	" 18	"	.....	65	"	"
" "	"	" 19	"	.....	55	"	"
" "	"	" 20	"	.....	46	"	"
" "	"	" 17 Plain	"	.....	57	"	"
" "	"	" 18	"	.....	42	"	"
" "	"	" 19	"	.....	33	"	"
" "	"	" 20	"	.....	27	"	"

Discount,

Price List of Machinery Grade Iron or Steel Wire Cloth.

No length less than 100 feet shall be considered a Roll.

No. 2 Mesh,	No. 11 Wire	32 cents per sq. foot.
" 2½ "	" 12 "	32 " " " "
" 3 "	" 13 "	32 " " " "
" 3½ "	" 14 "	32 " " " "
" 4 "	" 15 "	32 " " " "
" 5 "	" 16 "	32 " " " "
" 6 "	" 17 "	32 " " " "
" 8 "	" 19 "	32 " " " "
" 10 "	" 21 "	32 " " " "
" 12 "	" 22 "	32 " " " "
" 14 "	" 23 "	32 " " " "
" 16 "	" 24 "	32 " " " "
" 18 "	" 25 "	32 " " " "
" 20 "	" 27 "	35 " " " "

Discount,

Price List of Heavy Foundry Grade Iron or Steel Wire Cloth.

No length less than 100 feet shall be considered a Roll.

No. 2 Mesh,	No. 12 Wire	27 cents per sq. foot.
" 2½ "	" 13 "	27 " " " "
" 3 "	" 14 "	27 " " " "
" 3½ "	" 15 "	27 " " " "
" 4 "	" 16 "	27 " " " "
" 5 "	" 17 "	27 " " " "
" 6 "	" 18 "	27 " " " "
" 8 "	" 20 "	27 " " " "
" 10 "	" 22 "	27 " " " "
" 12 "	" 23 "	27 " " " "
" 14 "	" 24 "	27 " " " "
" 16 "	" 25 "	27 " " " "
" 18 "	" 26 "	27 " " " "
" 20 "	" 28 "	27 " " " "

Discount,

Price List of Foundry Grade Iron or Steel Wire Cloth.

No length less than 100 feet shall be considered a Roll.

No. 2 Mesh,	No. 14 Wire	17 cents per sq. foot.
" 2½ "	" 15 "	17 " " " "
" 3 "	" 16 "	17 " " " "
" 3½ "	" 17 "	17 " " " "
" 4 "	" 18 "	17 " " " "
" 5 "	" 19 "	17 " " " "
" 6 "	" 20 "	17 " " " "
" 8 "	" 22 "	17 " " " "
" 10 "	" 24 "	17 " " " "
" 12 "	" 25 "	17 " " " "
" 14 "	" 26 "	17 " " " "
" 16 "	" 27 "	17 " " " "
" 18 "	" 28 "	17 " " " "
" 20 "	" 31 "	17 " " " "

Discount,

Price List of Riddle Grade Iron or Steel Wire Cloth.**No length less than 100 feet shall be considered a Roll.**

No. 2 Mesh,	No. 16 Wire	12 cents per sq. foot.
" 2½ "	" 17 "	12 " " " "
" 3 "	" 18 "	12 " " " "
" 3½ "	" 19 "	12 " " " "
" 4 "	" 20 "	12 " " " "
" 5 "	" 21 "	12 " " " "
" 6 "	" 22 "	12 " " " "
" 8 "	" 24 "	12 " " " "
" 10 "	" 26 "	12 " " " "
" 12 "	" 27 "	12 " " " "
" 14 "	" 29 "	12 " " " "
" 16 "	" 30 "	12 " " " "
" 18 "	" 31 "	12 " " " "
" 20 "	" 34 "	12 " " " "

*Discount,***Price List of Hardware Grade of Iron or Steel Wire Cloth****No length less than 100 feet shall be considered a Roll.**

No. 2 Mesh,	No. 17 Wire	10 cents per sq. foot.
" 2½ "	" 18 "	10 " " " "
" 3 "	" 19 "	10 " " " "
" 3½ "	" 20 "	10 " " " "
" 4 "	" 21 "	10 " " " "
" 5 "	" 22 "	10 " " " "
" 6 "	" 23 "	10 " " " "
" 8 "	" 25 "	10 " " " "
" 10 "	" 27 "	10 " " " "
" 12 "	" 28 "	10 " " " "
" 14 "	" 31 "	10 " " " "
" 16 "	" 32 "	10 " " " "
" 18 "	" 33 "	10 " " " "
" 20 "	" 35 "	10 " " " "

*Discount,***Price List of Light Hardware Grade Iron or Steel Cloth.****No length less than 100 feet shall be considered a Roll.**

No. 2 Mesh,	No. 18 Wire	8 cents per sq. foot.
" 2½ "	" 19 "	8 " " " "
" 3 "	" 20 "	8 " " " "
" 3½ "	" 21 "	8 " " " "
" 4 "	" 22 "	8 " " " "
" 5 "	" 23 "	8 " " " "
" 6 "	" 24 "	8 " " " "
" 8 "	" 26 "	8 " " " "
" 10 "	" 28 "	8 " " " "
" 12 "	" 29 "	8 " " " "
" 14 "	" 33 "	8 " " " "
" 16 "	" 34 "	8 " " " "
" 18 "	" 35 "	8 " " " "
" 20 "	" 36 "	8 " " " "

Discount,

Brass and Copper Wire Cloth.

The Old English Gauge is used for all Brass or Copper Wire Cloth.

MANUFACTURERS' PRICE LIST.

The mesh in Wire Cloth is the distance from the Centre to the Centre of the Wire per lineal inch.

No length less than 100 feet shall be considered a Roll of any kind, grade or quality of Wire Cloth.

No.	2 Mesh	Brass	Wire	Cloth,	No.	8	Wire,	\$3 50	per	square	foot.
10	10	10	10	10	10	9	10	3 00	10	10	10
10	10	10	10	10	10	10	10	2 50	10	10	10
10	10	10	10	10	10	11	10	2 00	10	10	10
10	10	10	10	10	10	12	10	1 50	10	10	10
10	10	10	10	10	10	13	10	1 10	10	10	10
10	10	10	10	10	10	14	10	80	10	10	10
10	10	10	10	10	10	15	10	60	10	10	10
10	10	10	10	10	10	16	10	50	10	10	10
10	3 Mesh	10	10	10	10	10	10	3 00	10	10	10
10	10	10	10	10	10	11	10	2 50	10	10	10
10	10	10	10	10	10	12	10	2 00	10	10	10
10	10	10	10	10	10	13	10	1 50	10	10	10
10	10	10	10	10	10	14	10	1 10	10	10	10
10	10	10	10	10	10	15	10	80	10	10	10
10	10	10	10	10	10	16	10	60	10	10	10
10	10	10	10	10	10	17	10	50	10	10	10
10	10	10	10	10	10	18	10	45	10	10	10
10	4 Mesh	10	10	10	10	12	10	2 50	10	10	10
10	10	10	10	10	10	13	10	2 00	10	10	10
10	10	10	10	10	10	14	10	1 50	10	10	10
10	10	10	10	10	10	15	10	1 10	10	10	10
10	10	10	10	10	10	16	10	80	10	10	10
10	10	10	10	10	10	17	10	60	10	10	10
10	10	10	10	10	10	18	10	50	10	10	10
10	10	10	10	10	10	19	10	45	10	10	10
10	5 Mesh	10	10	10	10	13	10	2 50	10	10	10
10	10	10	10	10	10	14	10	2 00	10	10	10
10	10	10	10	10	10	15	10	1 50	10	10	10
10	10	10	10	10	10	16	10	1 10	10	10	10
10	10	10	10	10	10	17	10	80	10	10	10
10	10	10	10	10	10	18	10	60	10	10	10
10	10	10	10	10	10	19	10	50	10	10	10
10	10	10	10	10	10	20	10	45	10	10	10
10	6 Mesh	10	10	10	10	14	10	2 50	10	10	10
10	10	10	10	10	10	15	10	2 00	10	10	10
10	10	10	10	10	10	16	10	1 50	10	10	10
10	10	10	10	10	10	17	10	1 10	10	10	10
10	10	10	10	10	10	18	10	80	10	10	10
10	10	10	10	10	10	19	10	60	10	10	10
10	10	10	10	10	10	20	10	50	10	10	10
10	10	10	10	10	10	21	10	45	10	10	10
10	8 Mesh	10	10	10	10	16	10	2 50	10	10	10
10	10	10	10	10	10	17	10	2 00	10	10	10
10	10	10	10	10	10	18	10	1 50	10	10	10
10	10	10	10	10	10	19	10	1 10	10	10	10
10	10	10	10	10	10	20	10	80	10	10	10
10	10	10	10	10	10	21	10	60	10	10	10
10	10	10	10	10	10	22	10	50	10	10	10
10	10	10	10	10	10	23	10	45	10	10	10
10	10	10	10	10	10	24	10	40	10	10	10
10	10 Mesh	10	10	10	10	18	10	2 00	10	10	10
10	10	10	10	10	10	19	10	1 50	10	10	10
10	10	10	10	10	10	20	10	1 10	10	10	10
10	10	10	10	10	10	21	10	80	10	10	10
10	10	10	10	10	10	22	10	60	10	10	10
10	10	10	10	10	10	23	10	50	10	10	10
10	10	10	10	10	10	24	10	45	10	10	10
10	10	10	10	10	10	25	10	40	10	10	10

Price List of Brass and Copper Wire Cloth.—Continued.

No length less than 100 feet shall be considered a Roll.

No.	12 Mesh	Brass Wire Cloth,	No.	19	Wire....	\$2 00	per	square foot.
12			20		1 50			
13			21		1 10			
14			22		80			
15			23		60			
16			24		50			
17			25		45			
18			26		40			
19			27		35			
20			28		30			
21			29		25			
22			30		20			
23			31		15			
24			32		10			
25			33		8			
26			34		6			
27			35		5			
28			36		4			
29			37		3			
30			38		2			
31			39		1			
32			40		1			
33			41		1			
34			42		1			
35			43		1			
36			44		1			
37			45		1			
38			46		1			
39			47		1			
40			48		1			
41			49		1			
42			50		1			
43			51		1			
44			52		1			
45			53		1			
46			54		1			
47			55		1			
48			56		1			
49			57		1			
50			58		1			
51			59		1			
52			60		1			
53			61		1			
54			62		1			
55			63		1			
56			64		1			
57			65		1			
58			66		1			
59			67		1			
60			68		1			
61			69		1			
62			70		1			
63			71		1			
64			72		1			
65			73		1			
66			74		1			
67			75		1			
68			76		1			
69			77		1			
70			78		1			
71			79		1			
72			80		1			
73			81		1			
74			82		1			
75			83		1			
76			84		1			
77			85		1			
78			86		1			
79			87		1			
80			88		1			
81			89		1			
82			90		1			
83			91		1			
84			92		1			
85			93		1			
86			94		1			
87			95		1			
88			96		1			
89			97		1			
90			98		1			
91			99		1			
92			100		1			
93			101		1			
94			102		1			
95			103		1			
96			104		1			
97			105		1			
98			106		1			
99			107		1			
100			108		1			
101			109		1			
102			110		1			
103			111		1			
104			112		1			
105			113		1			
106			114		1			
107			115		1			
108			116		1			
109			117		1			
110			118		1			
111			119		1			
112			120		1			
113			121		1			
114			122		1			
115			123		1			
116			124		1			
117			125		1			
118			126		1			
119			127		1			
120			128		1			
121			129		1			
122			130		1			
123			131		1			
124			132		1			
125			133		1			
126			134		1			
127			135		1			
128			136		1			
129			137		1			
130			138		1			
131			139		1			
132			140		1			
133			141		1			
134			142		1			
135			143		1			
136			144		1			
137			145		1			
138			146		1			
139			147		1			
140			148		1			
141			149		1			
142			150		1			
143			151		1			
144			152		1			
145			153		1			
146			154		1			
147			155		1			
148			156		1			
149			157		1			
150			158		1			
151			159		1			
152			160		1			
153			161		1			
154			162		1			
155			163		1			
156			164		1			
157			165		1			
158			166		1			
159			167		1			
160			168		1			
161			169		1			
162			170		1			
163			171		1			
164			172		1			
165			173		1			
166			174		1			
167			175		1			
168			176		1			
169			177		1			
170			178		1			
171			179		1			
172			180		1			
173			181		1			
174			182		1			
175			183		1			
176			184		1			
177			185		1			
178			186		1			
179			187		1			
180			188		1			
181			189		1			
182			190		1			
183			191		1			
184			192		1			
185			193		1			
186			194		1			
187			195		1			
188			196		1			
189			197		1			
190			198		1			
191			199		1			
192			200		1			
193			201		1			
194			202		1			
195			203		1			
196			204		1			
197			205		1			
198			206		1			
199			207		1			
200			208		1			
201			209		1			
202			210		1			
203			211		1			
204			212		1			
205			213		1			
206			214		1			
207			215		1			
208			216		1			
209			217		1			
210			218		1			
211			219		1			
212			220		1			
213			221		1			
214			222		1			
215			223		1			
216			224		1			
217			225		1			
218			226		1			
219			227		1			
220			228		1			
221			229		1			
222			230		1			
223			231		1			
224			232		1			
225			233		1			
226			234		1			
227			235		1			
228			236		1			
229			237		1			
230			238		1			
231			239		1			
232			240		1			
233			241		1			
234			242		1			
235			243		1			
236			244		1			
237			245		1			
238			246		1			
239			247		1			
240			248		1			
241			249		1			
242			250		1			
243			251		1			
244			252		1			
245			253		1			
246			254		1			
247			255		1			
248			256		1			
249			257		1			
250			258		1			
251			259		1			
252			260		1			

Price List of Brass and Copper Wire Cloth.—Continued.

No length less than 100 feet shall be considered a Roll.

No.	30 Mesh	Brass	Wire	Cloth,	No.	31 Wire	....	\$0	52	per	square	foot.
..	..	..	..	..	..	32	..	..	47	..	..	..
..	..	..	..	..	..	33	..	..	42	..	..	..
..	..	..	..	..	..	34	..	..	37	..	..	..
..	..	..	..	..	..	35	..	..	33	..	..	..
..	..	..	..	..	..	36	..	..	30	..	..	..
..	40	Mesh	..	..	..	32	..	..	70	..	..	..
..	..	..	..	..	..	33	..	..	55	..	..	..
..	..	..	..	..	..	34	..	..	48	..	..	..
..	50	Mesh	..	..	..	34	..	..	75	..	..	..
..	..	..	..	..	..	35	..	..	58	..	..	..
..	..	..	..	..	..	36	..	..	50	..	..	..
..	60	Mesh	..	..	..	35	..	..	78	..	..	..
..	..	..	..	..	..	36	..	..	60	..	..	..
..	..	..	..	..	..	37	..	..	52	..	..	..
..	70	Mesh	..	..	..	37	..	..	70	..	..	..
..	80	..	..	..	..	38	..	..	90	..	..	..
..	90	..	..	..	..	39	..	1	10	..	..	..
..	100	..	..	..	..	40	..	1	30	..	..	..
..	110	Mesh	Plain	Brass	Wire	Cloth	....	1	35	..	..	..
..	120	..	..	..	..	..	..	1	60	..	..	..
..	130	..	..	..	..	..	..	1	90	..	..	..
..	110	..	Twilled	..	..	..	..	1	45	..	..	..
..	120	..	..	..	..	..	..	1	70	..	..	..
..	130	..	..	..	..	..	..	2	00	..	..	..
..	140	..	..	..	..	..	..	2	45	..	..	..
..	150	..	..	..	..	..	..	3	00	..	..	..
..	160	..	..	..	..	..	..	3	60	..	..	..
..	170	..	..	..	..	..	..	4	20	..	..	..
..	180	..	..	..	..	..	..	4	80	..	..	..
..	190	..	..	..	..	..	..	5	40	..	..	..
..	200	..	..	..	..	..	..	6	00	..	..	..

Discount,

PRICE LIST OF

Market Grade of Brass and Copper Wire Cloth.

The Mesh in Wire Cloth is the distance from the Centre to the Centre of the Wire.

No length less than 100 feet shall be considered a Roll.

No.	2 Mesh	Brass	Wire	Cloth,	No.	16 Wire	50	cents	per	square	foot.
..	3	..	..	..	..	17	..	50	..	..	..
..	4	..	..	..	..	18	..	50	..	..	..
..	5	..	..	..	..	19	..	50	..	..	..
..	6	..	..	..	..	20	..	50	..	..	..
..	8	..	..	..	..	22	..	50	..	..	..
..	10	..	..	..	..	23	..	50	..	..	..
..	12	..	..	..	..	24	..	50	..	..	..
..	14	..	..	..	..	25	..	50	..	..	..
..	16	..	..	..	..	26	..	50	..	..	..
..	18	..	..	..	..	27	..	50	..	..	..
..	20	..	..	..	..	28	..	50	..	..	..
..	22	..	..	..	..	29	..	50	..	..	..
..	24	..	..	..	..	30	..	50	..	..	..
..	30	..	..	..	..	31	..	52	..	..	..
..	40	..	..	..	..	33	..	55	..	..	..
..	50	..	..	..	..	35	..	58	..	..	..
..	60	..	..	..	..	36	..	60	..	..	..
..	70	..	..	..	..	37	..	70	..	..	..
..	80	..	..	..	..	38	..	90	..	..	..
..	90	..	..	..	..	39	..	1	10	..	..
..	100	..	..	..	..	40	..	1	30	..	..

Discount,

Price List of Twilled Brass or Copper Wire Cloth.

No length less than 100 feet shall be considered a Roll.

All Meshes 10 cents per square foot advance on price of Plain Cloth.

Discount,

Price List of Brass Wire Cloth for Sugar Machines.

No. 120 Mesh, German, woven to size, Nos. 27 and 33 Wire ..	\$1.00	per sq. ft.
" " Heavy Twilled Backing	70	" "
" 16 " Regular Plain "	50	" "

Discount,

Price List of Copper Wire Cloth.

No length less than 100 feet shall be considered a Roll.

The manufacturers' list for Brass Wire Cloth.

Discount,

Price List of Phosphor-Bronze Wire Cloth.

No length less than 100 feet shall be considered a Roll.

The manufacturers' list for Brass and Copper Wire Cloth.

Brass Milk-Strainer Wire Cloth.

By the quantity.....	cents per square foot, NET CASH.
Less than 1000 feet at an order.....	" " " " " "

Prices of Brass Perforated Plates for Centrifugal Sugar Machines.

{ No. 0 has 525 holes to the square inch. }
{ No. 1 " 400 " " " " " }
}

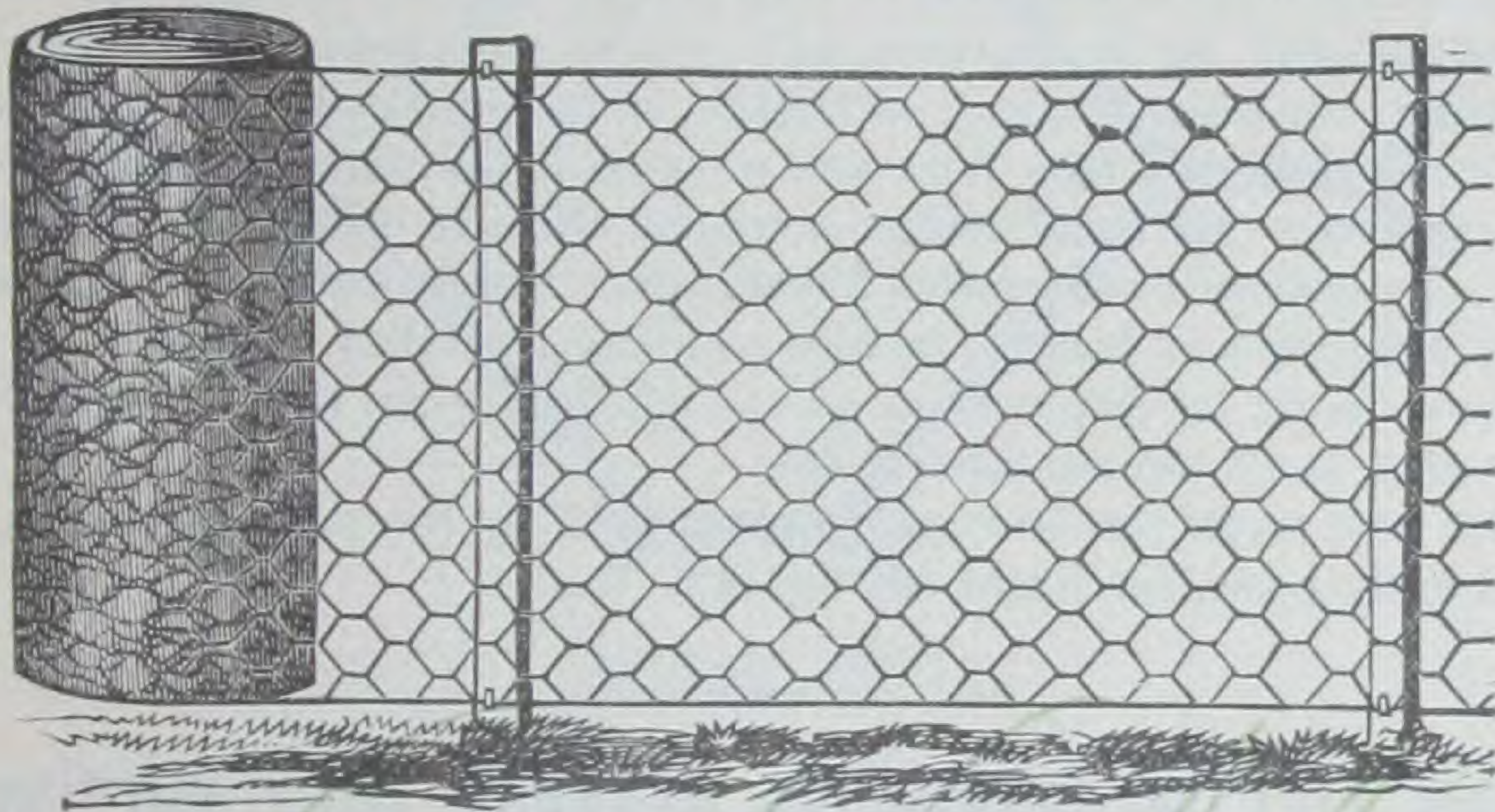
No. 0, Sheets, 14 x102 inches.....	\$10.00	each.
No. 0, " 12½x102 "	9.00	"
No. 1, " 14 x102 "	8.00	"
No. 1, " 12½x102 "	7.00	"

Eight-foot lengths, 50 cents per sheet less.

Discount,

GALVANIZED
HEXAGON WIRE FENCING.

For Farm, Garden and Division Fences.



Made of No. 10 Wire for selvage, and No. 14 for body; Meshes, 4 inches wide.

The preceding cut shows a bale of Galvanized Hexagon Fencing, partly unrolled, and stapled to posts. As a fence against cattle, sheep, goats, hogs, poultry, or vermin, we can recommend it as being superior to any other that can be put up for the purpose at the same expense. It is made of Galvanized Wire, which protects it from the action of the weather. It is especially adapted to sections of the country where timber is scarce, or which is subject to heavy falls of snow, as a fence made of it exposes so little surface for the wind to act upon, that it is no obstruction to the drifting snow, and consequently is the most desirable fence a railroad company can have. For Garden and Division Fences, place the posts from six to eight feet apart, with a base board six inches wide, and a top rail three inches wide; stretch the wire work along the posts by tightening the selvage wires; then staple the wire to the posts and along the top and bottom rail.

PRICE LIST OF HEXAGON GALVANIZED FENCING

BY THE BALE.

Fencing is put up in 20 rod Bales.

No. 1,	4 inch	Mesh,	3 $\frac{3}{4}$	feet	wide,	Nos. 10 and 14	Wire,	\$3 25	per rod.
" 1 $\frac{1}{2}$,	4	"	3	"	"	"	"	2 75	" "
" 2,	4	"	2 $\frac{1}{2}$	"	"	"	"	2 50	" "

Discount,



GALVANIZED HEXAGON WIRE NETTING,

For the security and confinement of animals and fowl, is, in every requirement, the best material for the purpose, and its increased production and sale each succeeding year is the strongest attestation of its superiority over other methods. Twisted in plain Iron Wire and afterwards Galvanized, it is impervious to rain and snow; the small surface presented offers no obstruction to the wind, which is so destructive to wooden fences, while under ordinary circumstances it is more sightly and durable, besides requiring no skilled labor to erect.

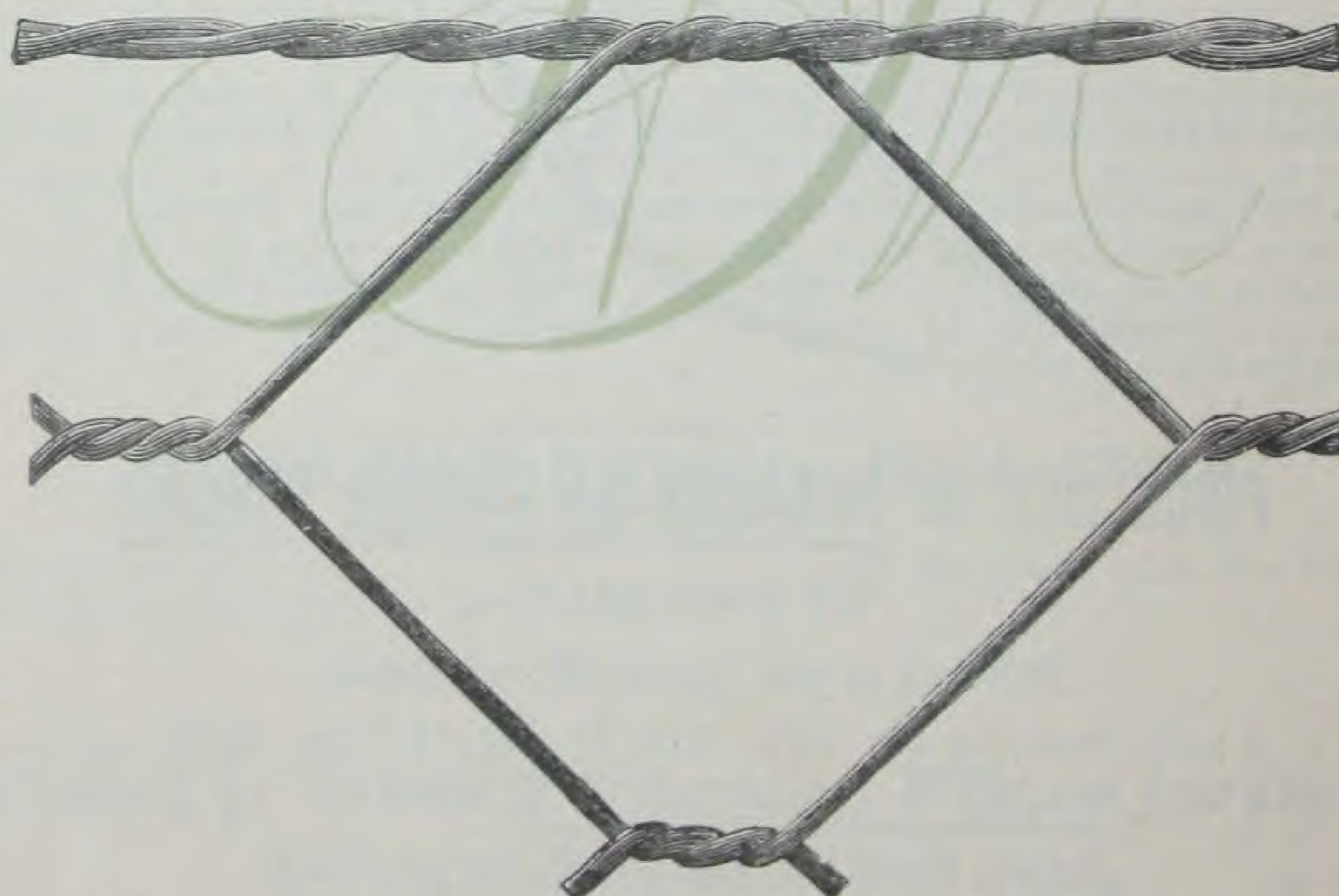
Posts should be driven from six to eight feet apart, with a baseboard six inches wide, and a top rail three inches.

The wire work can be readily drawn tight by the selvedged wires, and stapled to the posts, baseboard and top rail.

PRICE LIST OF GALVANIZED HEXAGON WIRE NETTING.

BY THE BALE.

Put up in Bales each 150 feet long.



2-INCH MESH.

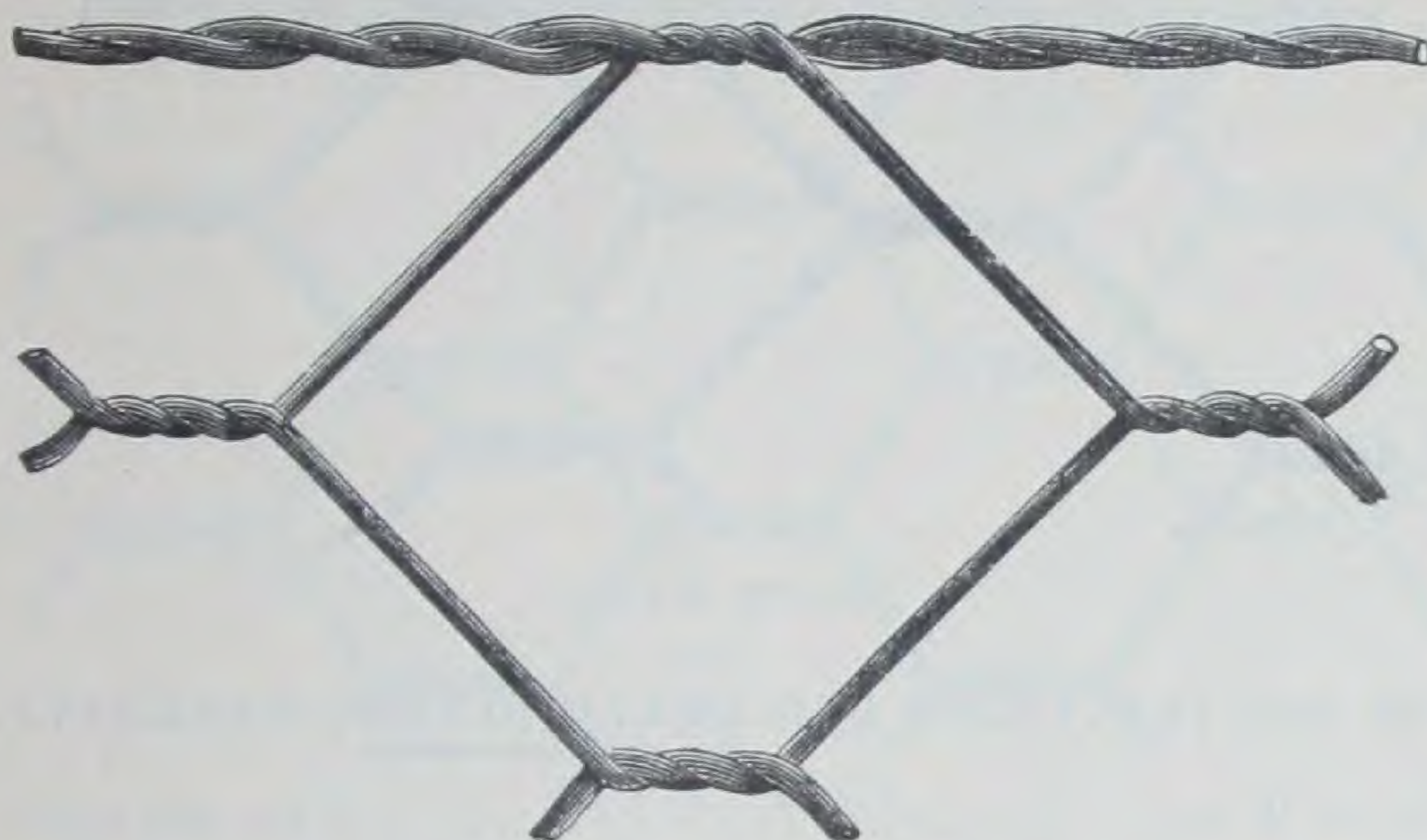
THE ORDINARY POULTRY NETTING.

From No. 18 Wire	3 cents per square foot.
" " 19 " 	2½ " " " "

Widths in stock, 12, 18, 24, 30, 36, 42, 48, 60 and 72 in.

Discount,

Galvanized Hexagon Wire Netting.—Continued.



1½-INCH MESH.

FOR PROTECTION OF THE SMALLEST SIZED CHICKENS.

From No. 18 Wire.....	4¼ cts. per square foot.
“ “ 19 “	3½ “ “ “

Widths in stock, 24 in., 30 in., 36 in., 42 in., and 48 inch.

Discount,



1¼-INCH MESH.

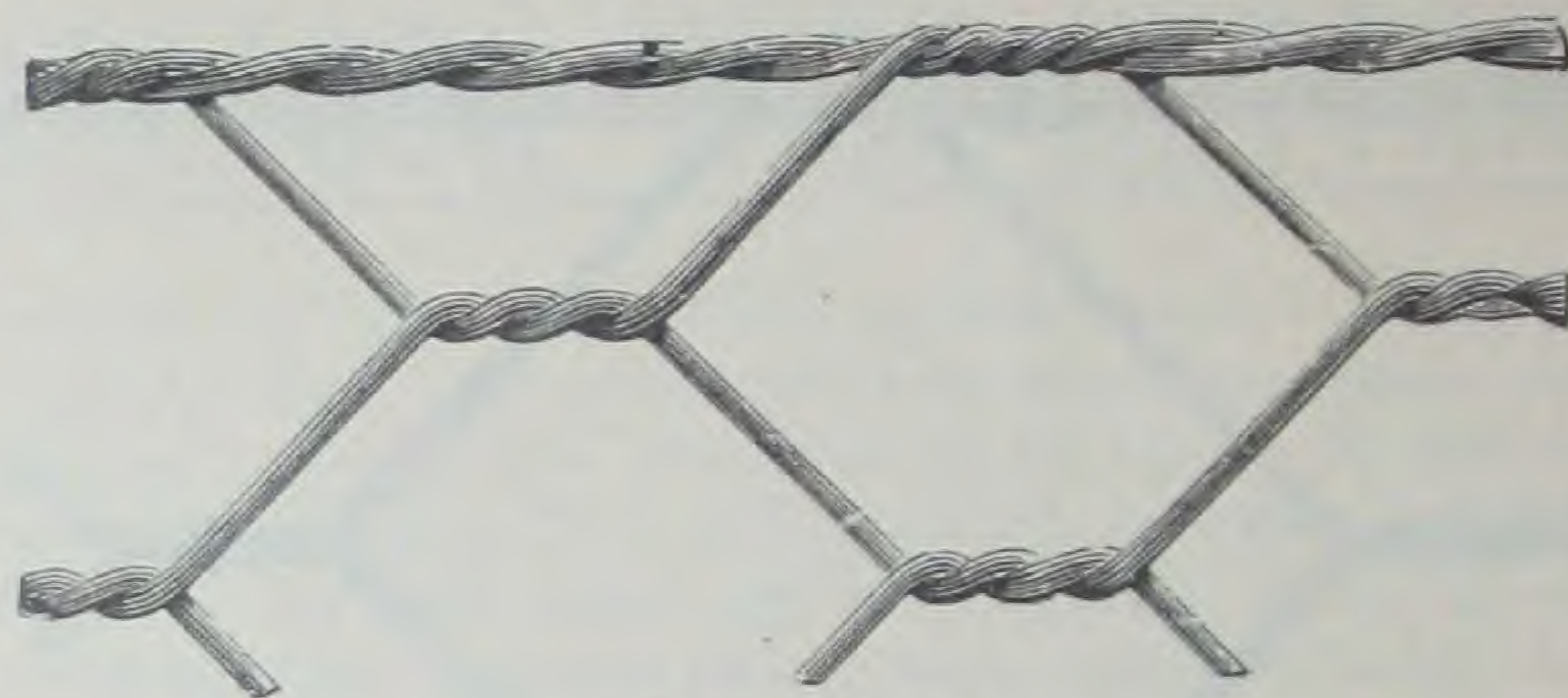
FOR PHEASANTRIES, PIGEON HOUSES, Etc.

From No. 18 Wire.....	6½ cts. per square foot.
“ “ 19 “	5½ “ “ “

Widths in stock, 24 in., 30 in., 36 in., and 42 inch.

Discount,

Galvanized Hexagon Wire Netting.—Continued.



1-INCH MESH.

FOR PHEASANTRIES AND SMALL BIRDS GENERALLY.

From No. 19 Wire.....	7 cts. per square foot.
“ “ 20 “	6 “ “ “

Widths in stock, 24 in., 30 in., 36 in., and 48 inch.

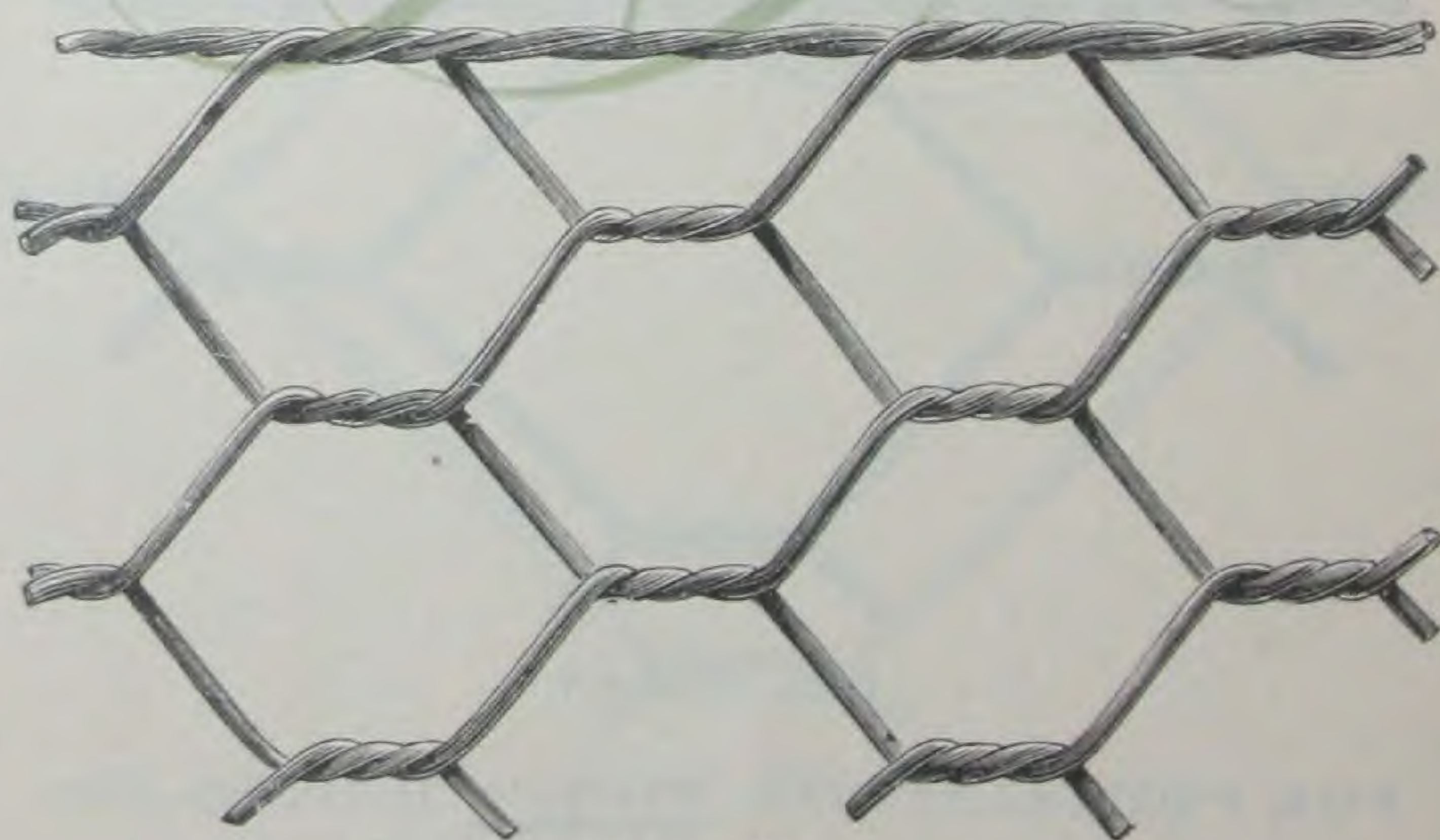
Discount,

SPECIAL, FOR GLUE MANUFACTURERS.

1 inch Mesh, from No. 18 Wire....	8 $\frac{1}{4}$ cts. per square foot.
“ “ “ “ 17 “	10 $\frac{3}{4}$ “ “ “
“ “ “ “ 16 “	14 $\frac{1}{4}$ “ “ “

MADE TO ORDER IN ANY WIDTH REQUIRED.

Discount,



$\frac{3}{4}$ -INCH MESH.

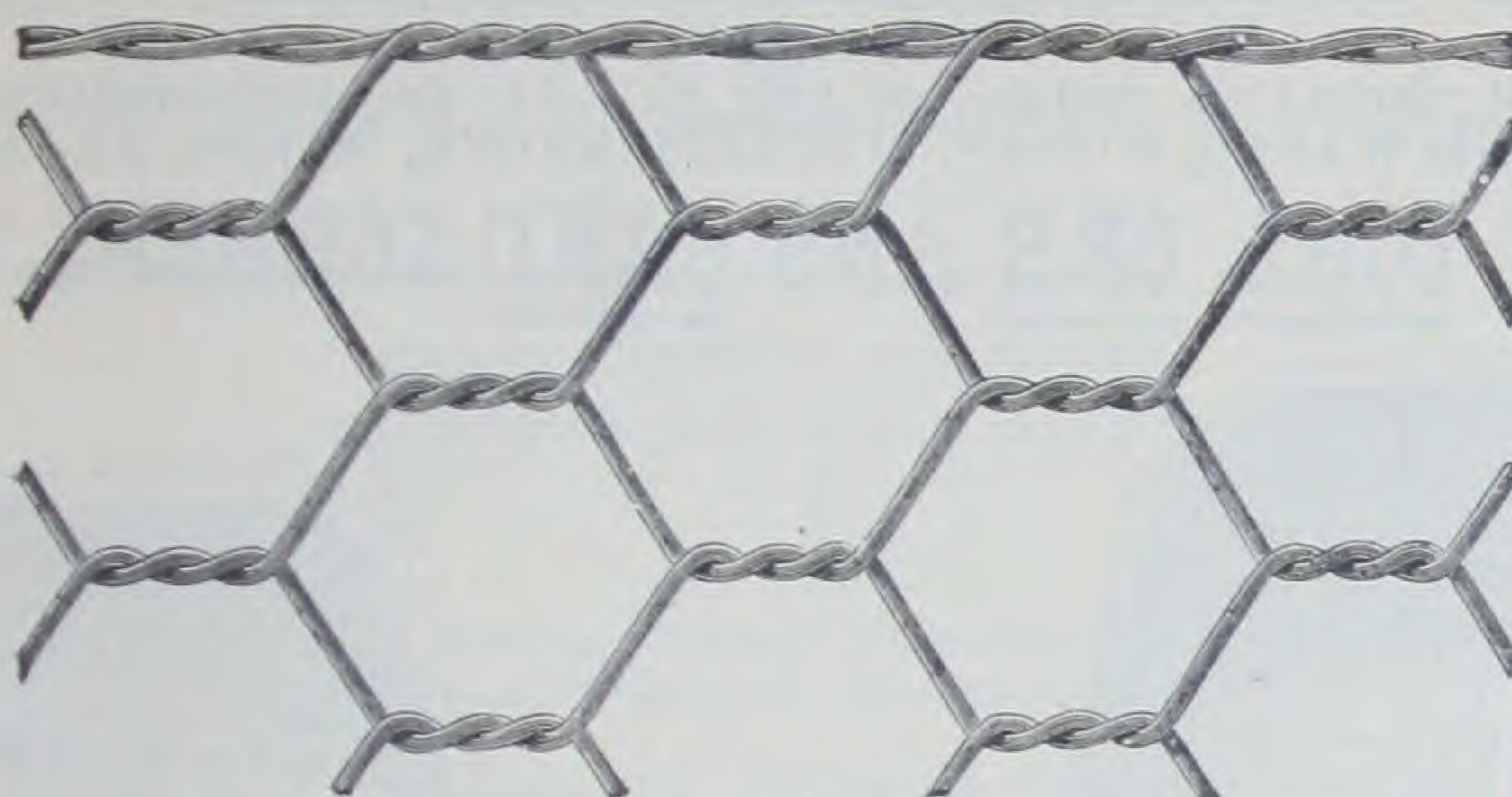
FOR AVIARIES, POULTRY ENCLOSURES, Etc.

From No. 20 Wire.....	9 cts. per square foot.
-----------------------	-------------------------

Widths in stock, 24 inch, 30 inch, and 36 inch.

Discount,

Galvanized Hexagon Wire Netting.—Continued.



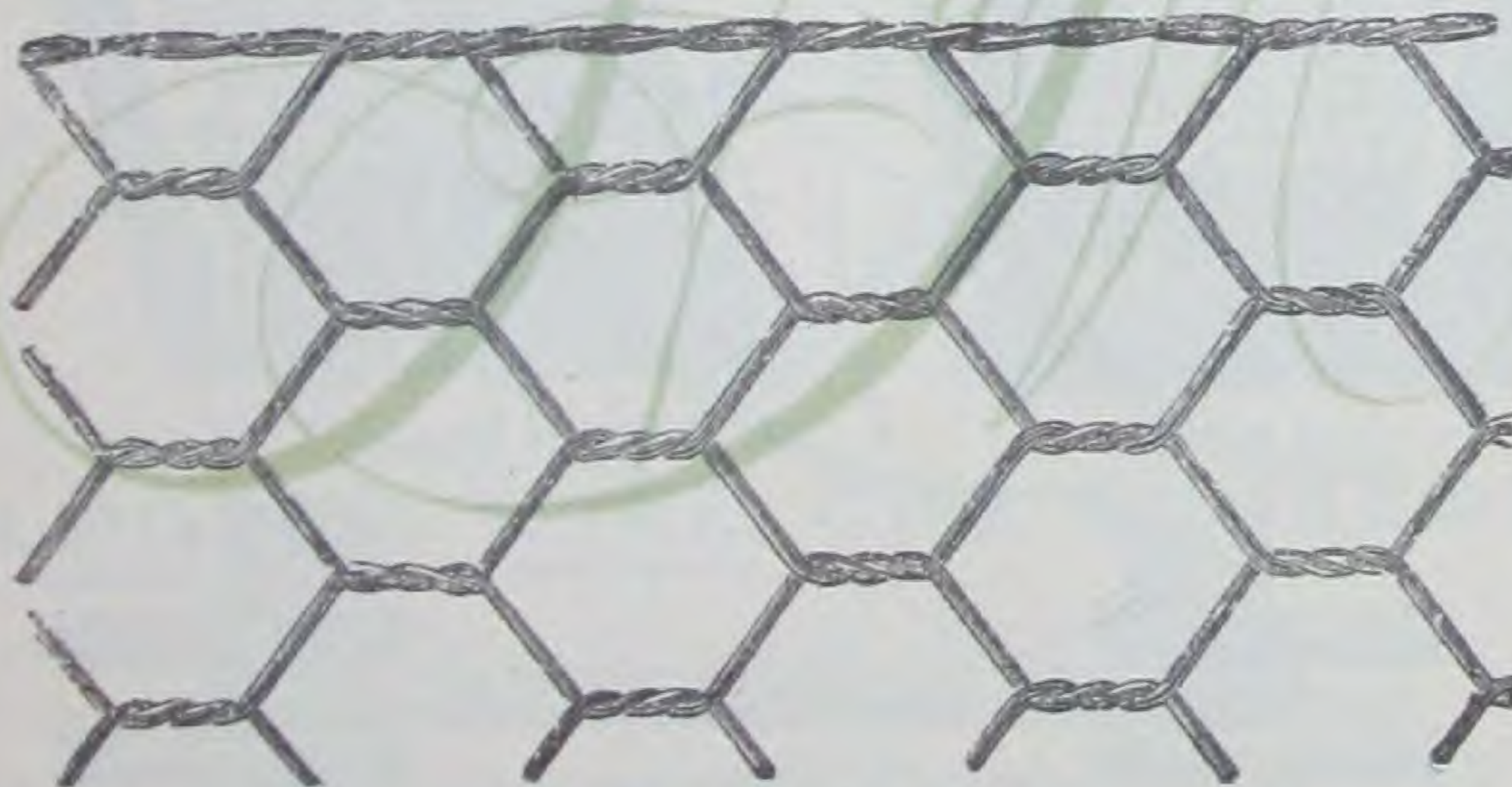
$\frac{5}{8}$ -INCH MESH.

FOR AVIARIES, CHURCH AND OTHER WINDOW GUARDS, Etc.

From No. 22 Wire.....14 cents per square foot.

Widths in stock, 24 inch and 36 inch.

Discount,



$\frac{1}{2}$ -INCH MESH.

FOR AVIARIES, CAGES, Etc.

From No. 22 Wire.....18 $\frac{1}{2}$ cents per square foot.

Widths in stock, 24 inch and 36 inch.

All the different meshes of Netting are Galvanized after being made.

Discount,

STAPLES.

1 $\frac{1}{4}$ inch Galvanized No. 11 Wire.....10 cents per lb., net.
 $\frac{3}{4}$ inch " " 14 " 20 " " "

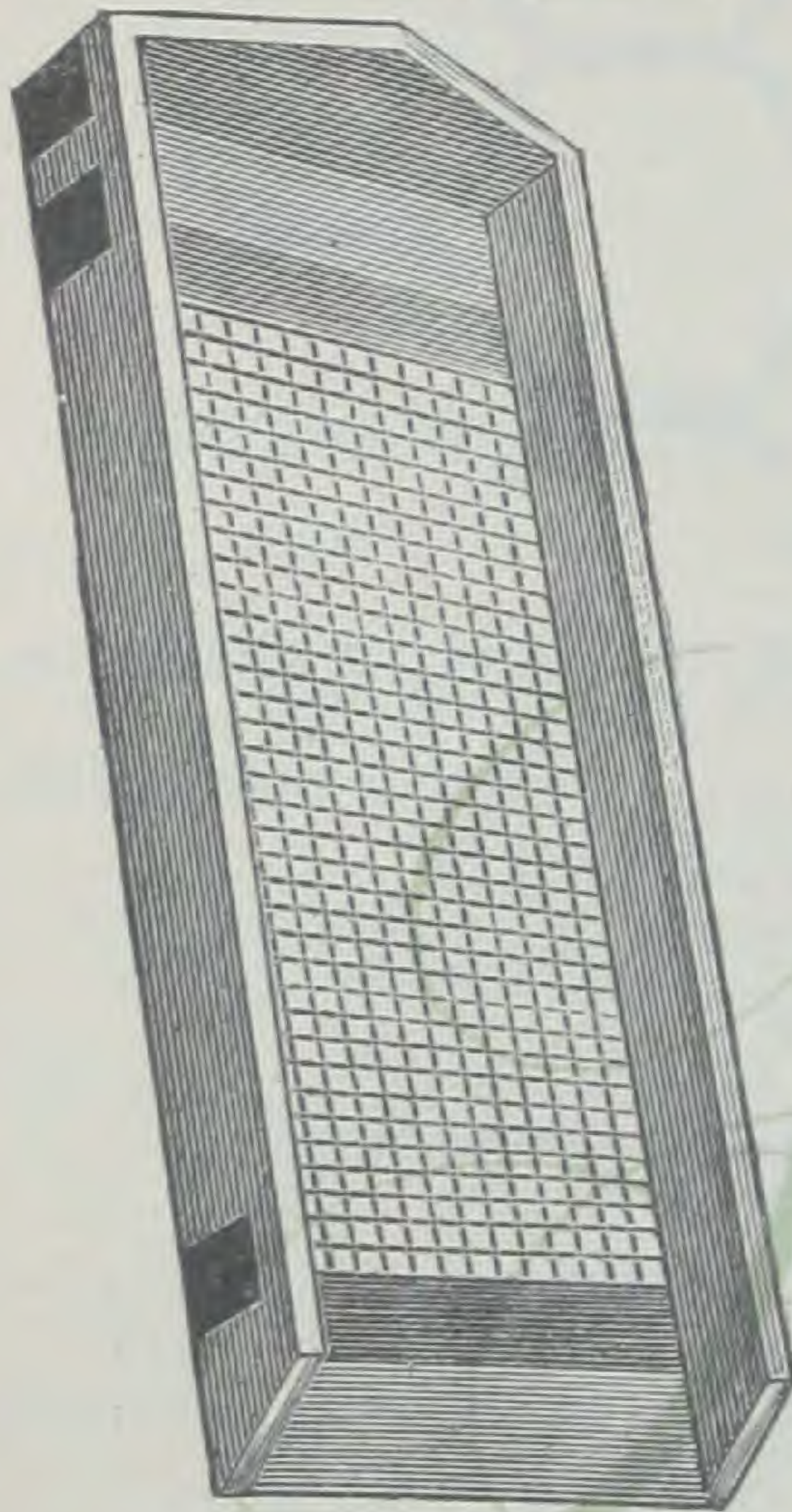
Discount,

Supplies in WIRE & METAL GOODS

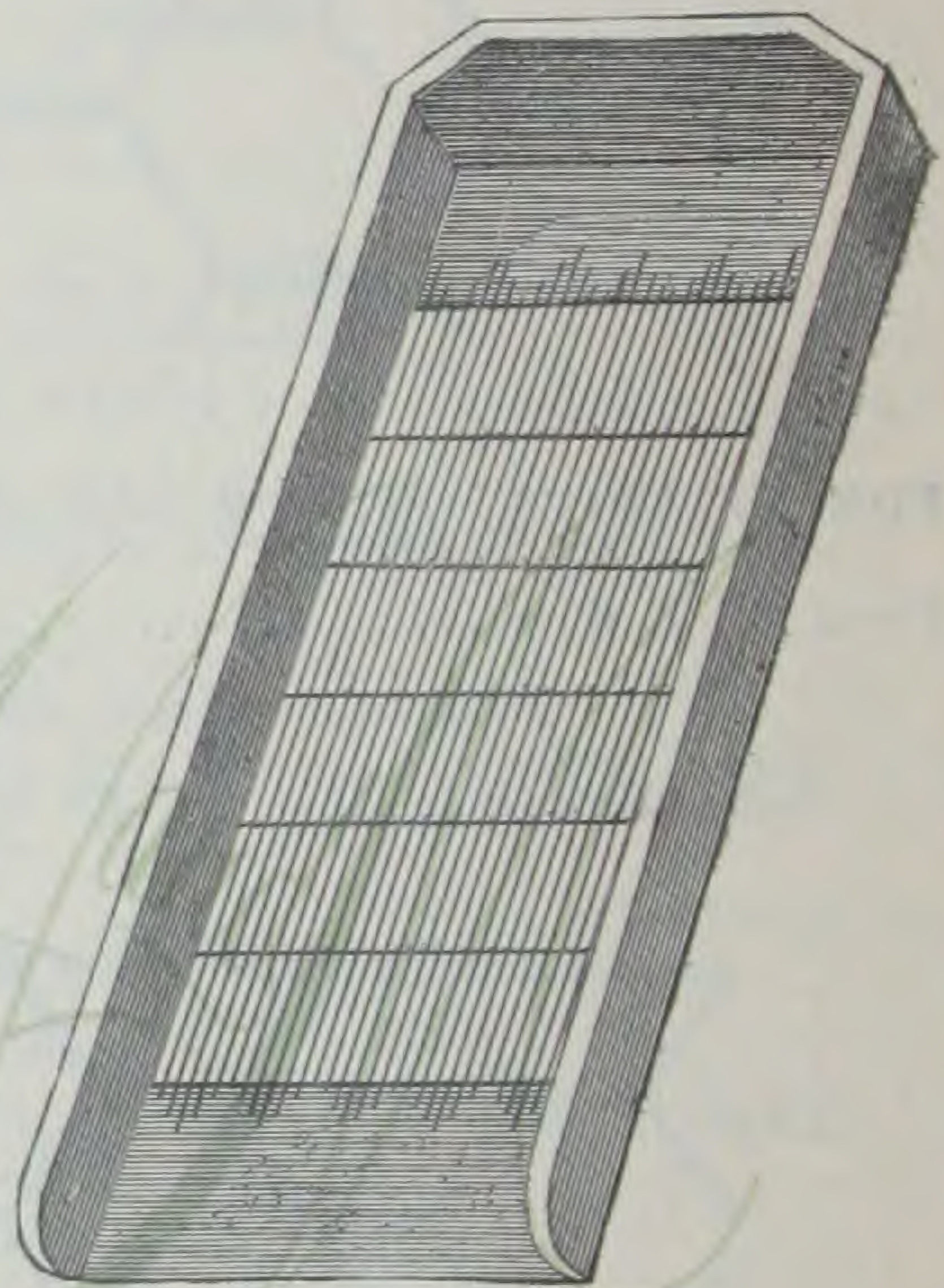
FOR

MINES. ROLLING MILLS, BLAST FURNACES, FOUNDRIES, GAS
AND WATER WORKS, MACHINE SHOPS, MILLS, &c., &c.

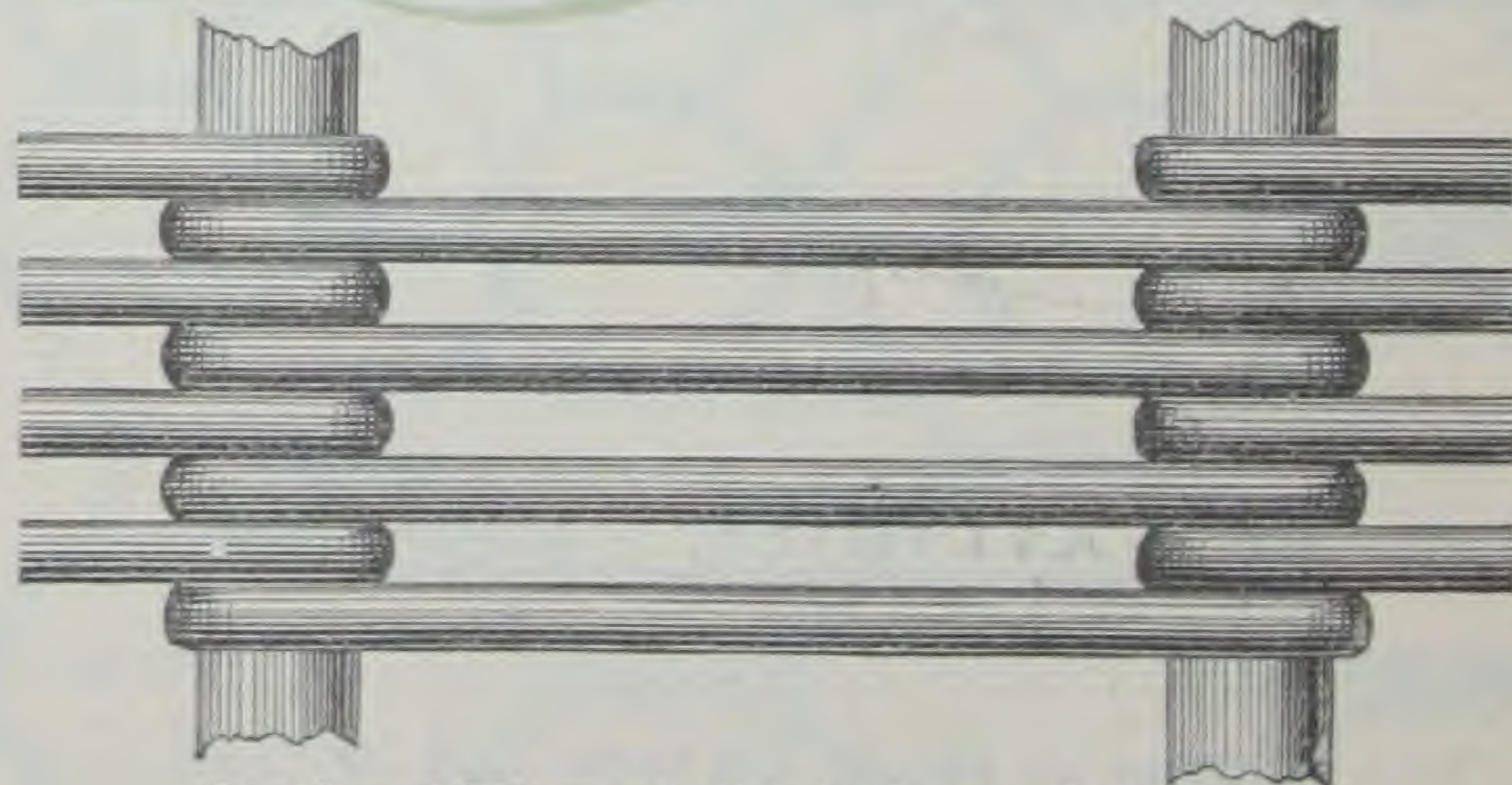
COAL, ORE AND SAND SCREENS.



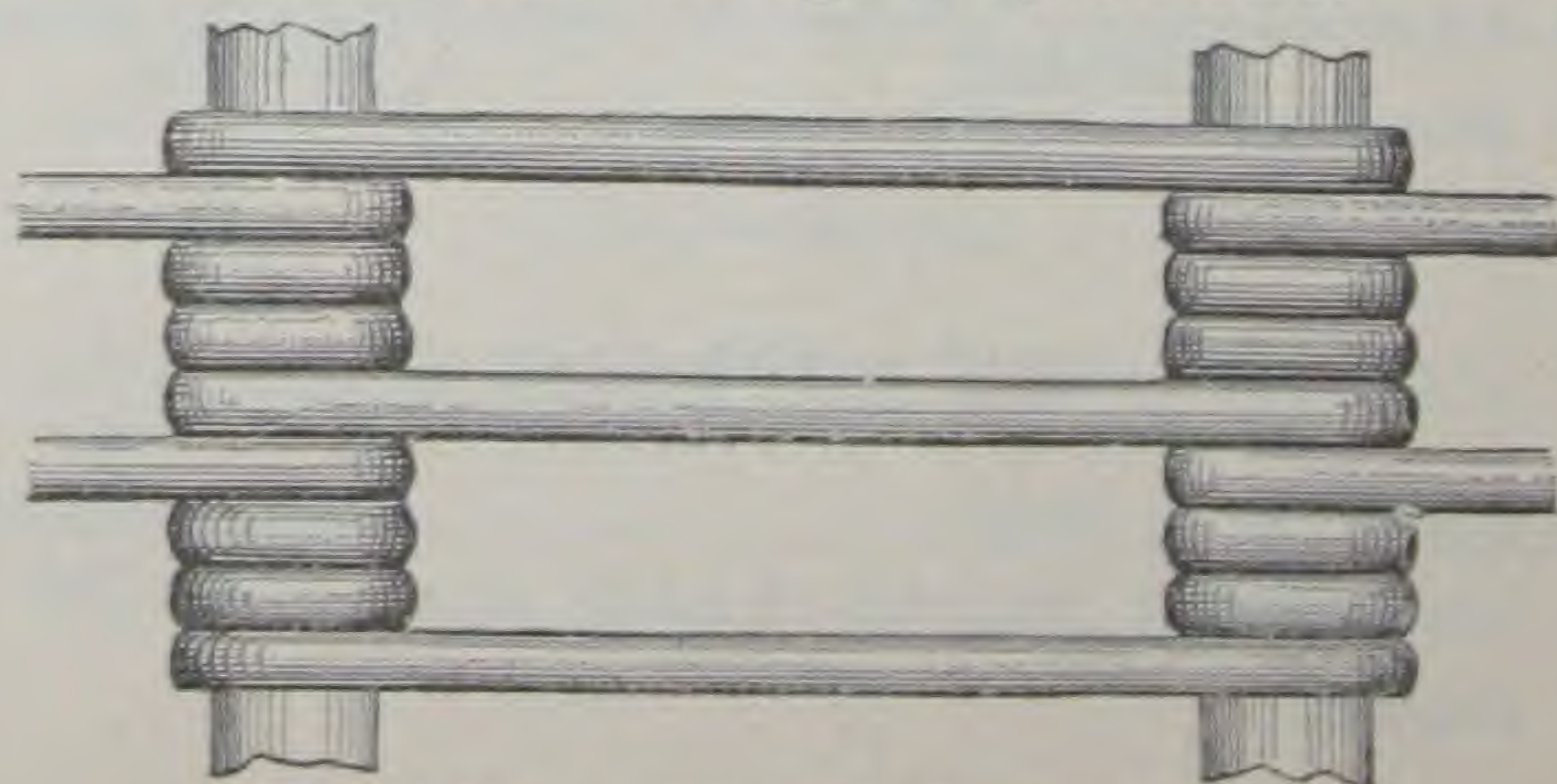
Coal Screen.



Sand Screen.



Sectional View of Single Looped Screen.



Sectional View of Double Looped Screen.

COAL SCREENS,

Carried in stock, of the same weight of material as the respective meshes shown on pages 14 and 15.

33 inch Heavy Wire, 1 in. to 2 in. space between wires	\$12 00 each.
33 " " " $\frac{1}{4}$ in. to $\frac{7}{8}$ in. " " "	10 00 "
27 " " " $\frac{1}{2}$ in. to 1 in. " " "	7 00 "
With standard and leg, extra	3 50 "

MEASUREMENTS OF ABOVE.

33 inch Screens	{ 33 inches wide by 6 feet 1 inch high over all.
	{ 30 " " " 4 " 3 " " screening surface.
27 inch Screens	{ 27 " " " 5 " 4 " " over all.
	{ 24 " " " 3 " 7 " " screening surface.
2 inch and $1\frac{1}{2}$ inch Spruce frames. Generally conceded to be more serviceable than oak for this purpose.	

The Sizes Required for Screening Different Grades.

$\frac{1}{4}$ inch Mesh Screen	is used for Screening	Pea Coal.
$\frac{1}{2}$ " " "	" " " "	Chestnut Coal.
$\frac{3}{4}$ " " "	" " " "	Fine Stove Coal.
1 " " "	" " " "	Coarse " "
2 " " "	" " " "	Egg " "
$2\frac{1}{2}$ " " "	" " " "	Broken " "
$3\frac{1}{2}$ " " "	" " " "	taking ashes from cinders.
$4\frac{1}{2}$ " " "	" " " "	takes Pea out of Stove Coal.
$1\frac{1}{2}$ " " "	" " " "	Chestnut out of Egg Coal.
$2\frac{1}{2}$ " " "	" " " "	Stove out of Broken Coal.

SAND SCREENS.

26 inch Screens, Laced Wire	\$4 50 each.
24 " " " " "	4 00 "
26 " " " " " Looped Wire	6 00 "
24 " " " " " " "	5 00 "

LOOPED WIRE ORE SCREENS.

Particular attention is directed to the character of the Looped Wire sections of Gravel and Ore Screens shown on the foregoing page. This work possesses decided advantages of **strength and even surface**, while the space between wires and the weight of material that can be employed in construction is practically illimitable.

These features will be readily appreciated by miners of Ores and Rock Phosphates.

Prices on application.

WHITE MORTAR SCREENS.

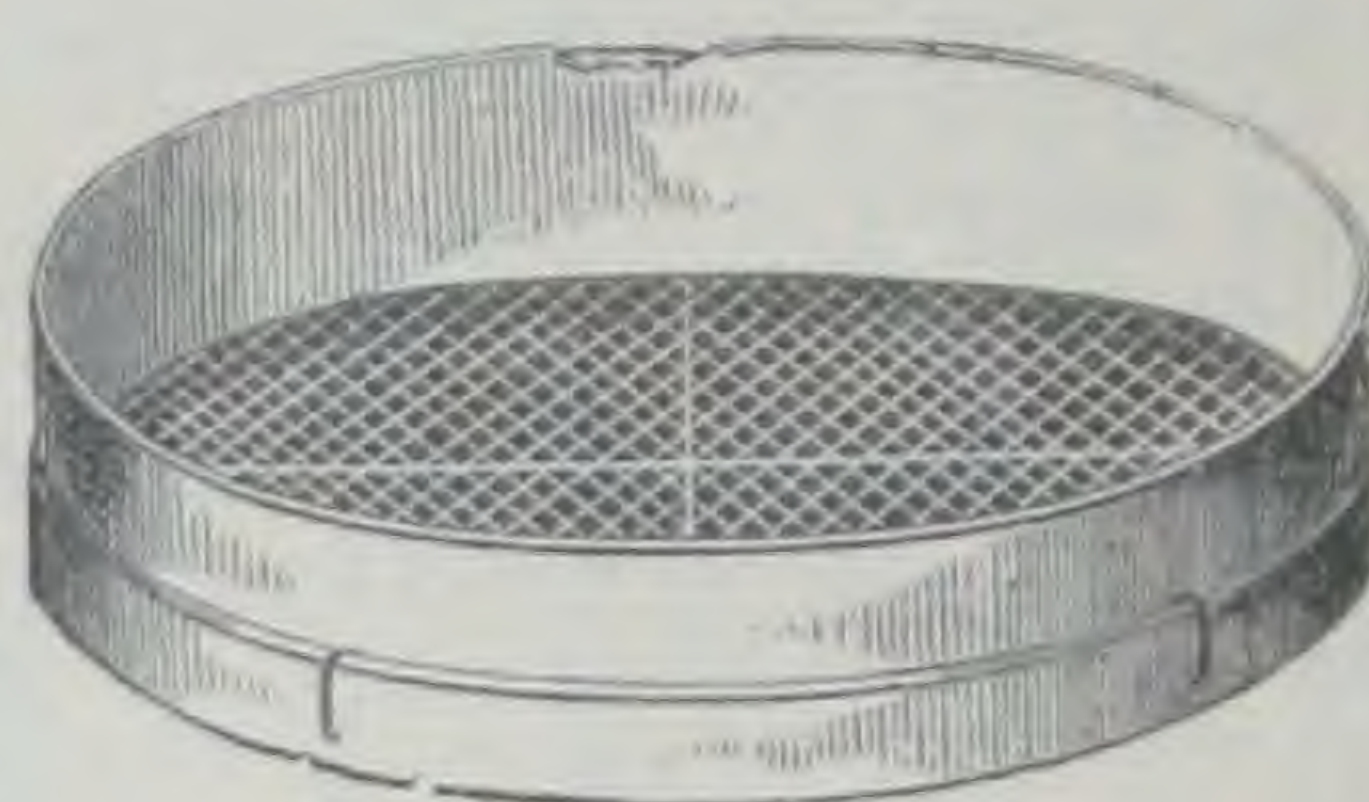


Prices of White Mortar Screens.

Single, Brass Wire Lacing	\$21 00 per dozen.
Double, " " " "	33 00 " "

Discount,

RIDDLES AND SIEVES.



Foundry Riddle.

IRON RIDDLES.

16 inch Iron Wire.....	\$6 00 per doz.
18 " ".....	7 00 "
20 " ".....	8 00 "
Nos. 2 and 3 Mesh extra.....	1 00 "

BRASS RIDDLES.

16 inch Brass Wire.....	\$15 00 per doz.
18 " ".....	18 00 "
20 " ".....	21 00 "
Nos. 2 and 3 Mesh extra.....	3 00 "

GALVANIZED RIDDLES.

Same list price as Iron.

OAT SIEVES.

14 inch, No. 12 Mesh, Iron.....	\$4 00 per doz.
16 " " ".....	5 00 "
18 " " ".....	6 00 "
20 " " ".....	7 00 "

BRASS DRUCCIST SIEVES.

4 to 8 inch, No. 20 to 60 mesh, assorted.....	\$8 00 per doz.
4 " 8 " " 70 " 100 " ".....	10 00 "
4 " 8 " " 120 " 150 " ".....	20 00 "
9 " 11 " " 20 " 60 " ".....	10 00 "
9 " 11 " " 70 " 100 " ".....	15 00 "
9 " 11 " " 120 " 150 " ".....	30 00 "

Discount,

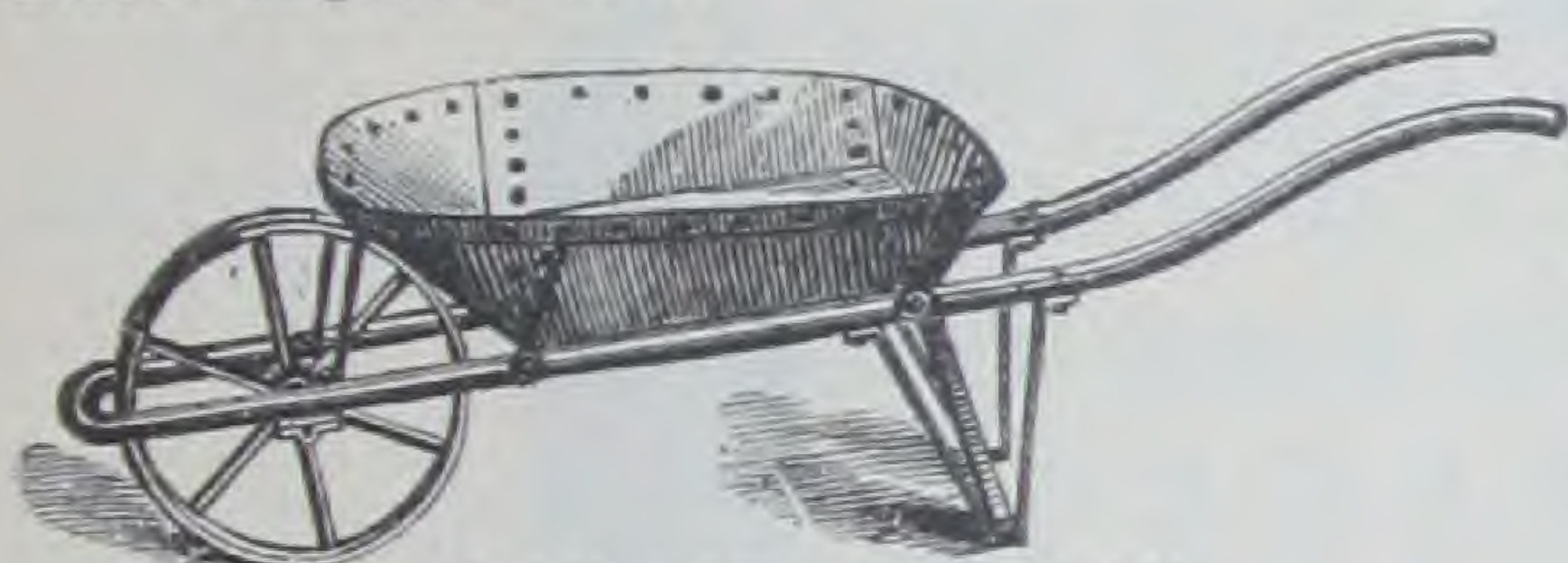
Sieves for Sampling or Laboratory service of special kinds made to order.

TUBULAR WHEEL BARROWS.

IRON THROUGHOUT.

We call the attention of manufacturers, dealers, steamship, canal, railroad and gas companies, iron manufacturers, miners, brick makers, and all other parties who may have occasion, under any circumstances whatever, to use Wheel Barrows, to the **superiority of this Barrow in construction, convenience and ultimate economy.**

The whole Barrow is made of metal; the frame (forming also the handles) being made of tubing, and the tray, braces and wheel of wrought iron; thus securing the combination of **great strength, durability, and comparative lightness.** These Barrows are manufactured in the best and most complete manner possible; so that all similar parts (of the same size Barrows) are interchangeable, and they can be taken apart and packed (when shipped in quantities) in a more compact manner than any other style of barrow now in the market, and on arrival at destination can be readily put together without skilled labor. Should any of the parts become lost or broken, through excessive misuse or long continued wear, they can be duplicated at once; and a coat of paint at any time will make the Barrow as good as new.

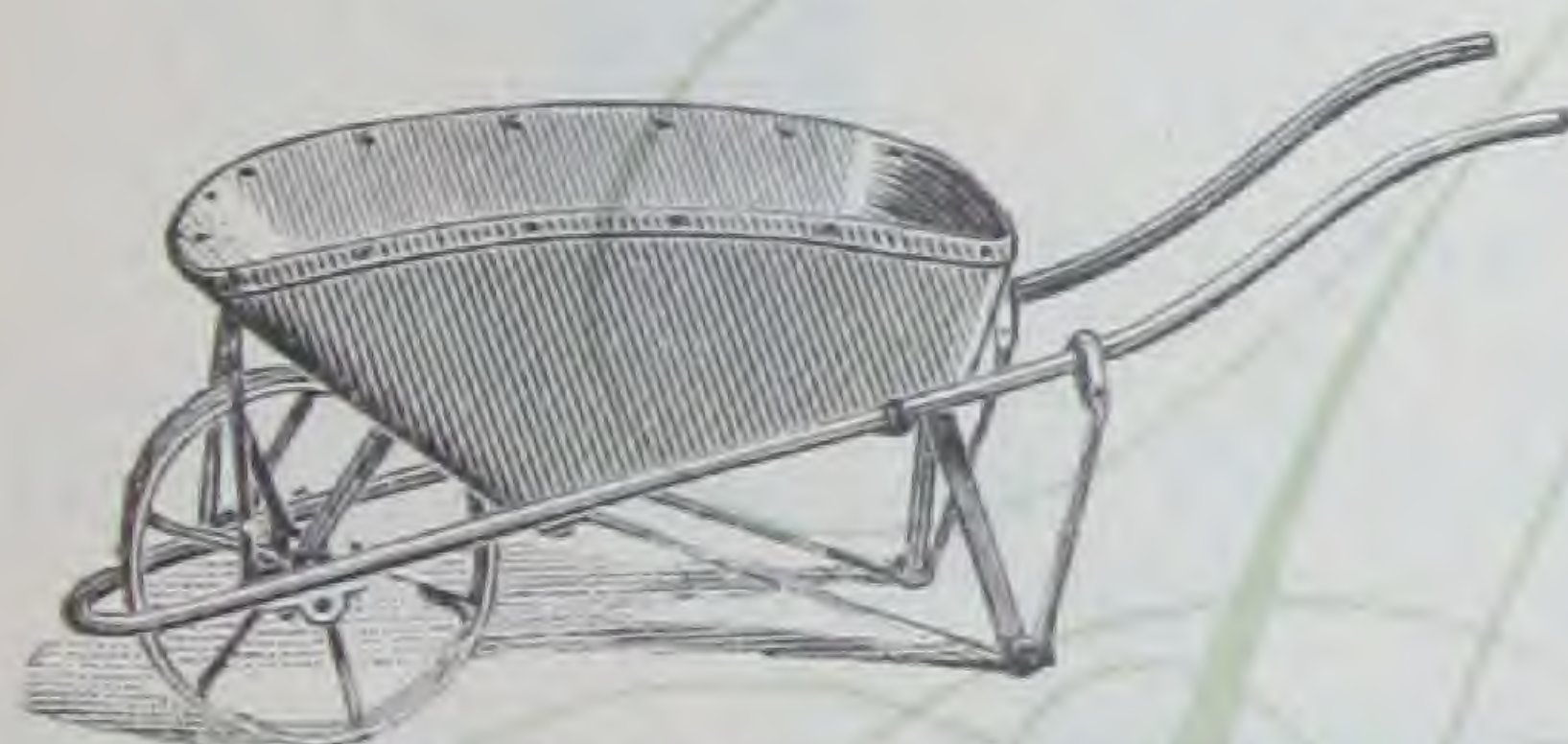


FOUNDRY BARROW.

FOUNDRY BARROWS.

Size 4 a.....	Price \$14 00
" 5 a.....	" 15 00
" 6 a.....	" 16 50

These Barrows are made with trays of No. 12 iron, heavy legs and wheels and especially adapted for wheeling castings, hot cinders and general foundry and furnace use.



SINGLE COAL BARROW.

COAL BARROWS.

Size A, with Tray holding 325 lbs. of Coal.

Greatest width of Tray, 30 inches..... Price \$26 00
Weight of Barrow, 135 lbs.

Size B, with Tray holding 400 lbs. of Coal.

Greatest width of Tray, 36 inches,
Price..... \$29 00
Weight of Barrow, 145 lbs.

Size C, with Tray holding 260 lbs. of Coal.

Greatest width of Tray, 25 inches, especially designed for use in coal bunkers,
Price..... \$26 00
Weight of Barrow, 135 lbs.



TWO-WHEELED BARROW.

Holding 500 lbs..... Price \$38.00

Size D, with Tray, holding 300 lbs. of Coal.

Price..... \$18 00
Weight of Barrow, 98 lbs.

Size D, No. 2, with Tray holding 350 lbs. of Coal.

Price..... \$20 00

Size E, with Tray holding 4 bushels of Coke or Charcoal.

Price..... \$28 00
Weight of Barrow, 126 lbs.



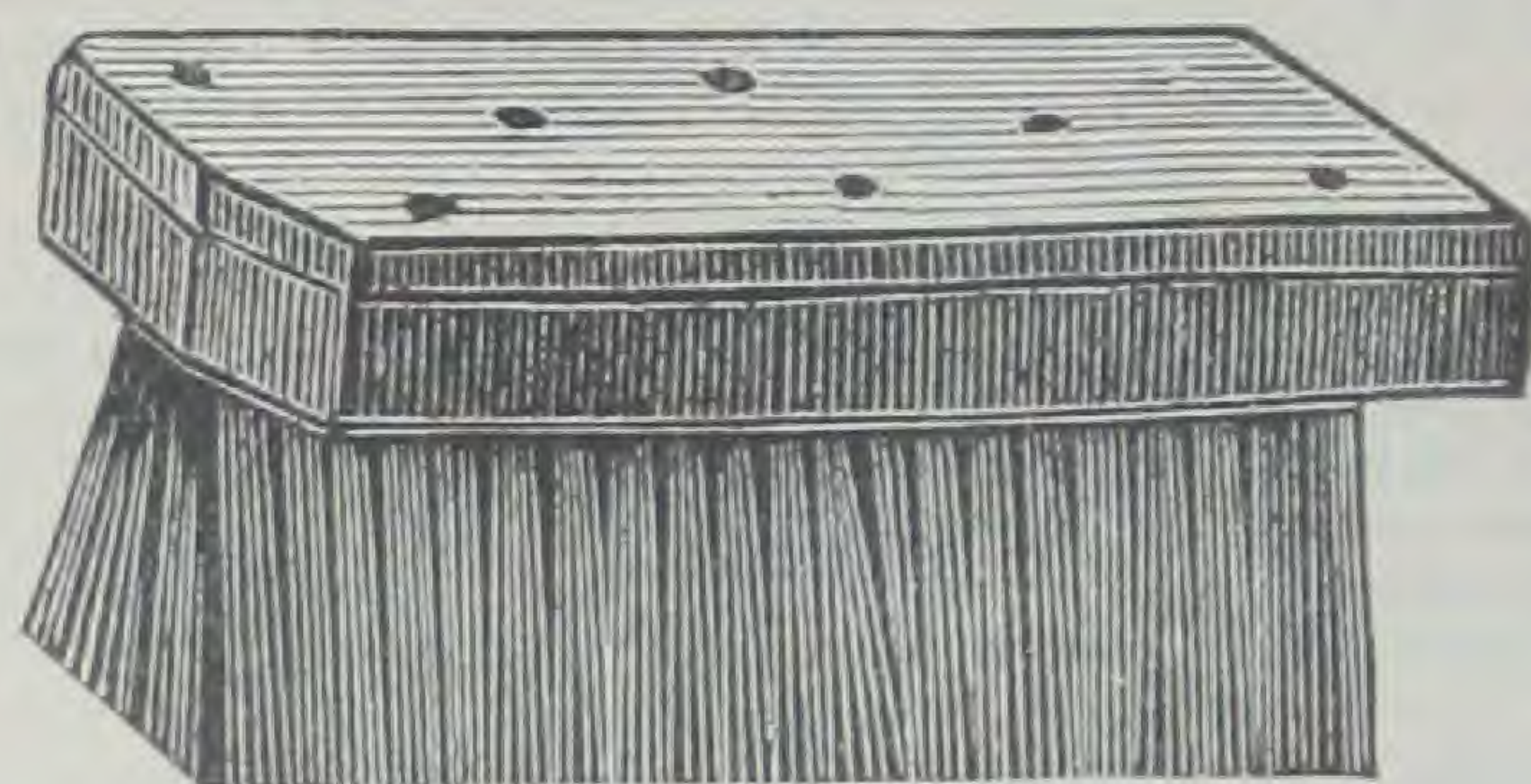
PIC METAL BARROW.

Size I..... Price \$20.00

This Barrow is expressly designed for carrying Coke, Charcoal, or other equally light material, and is not intended for use as a Coal Barrow.

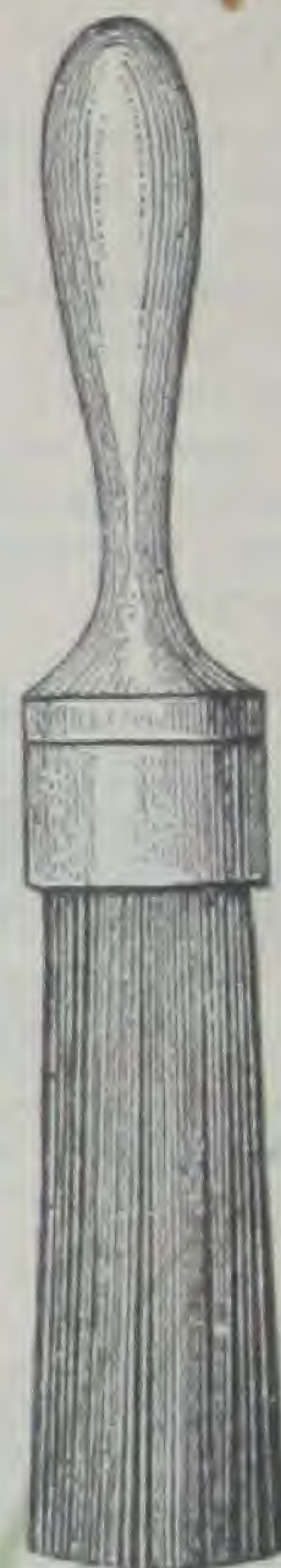
Discount,

STEEL WIRE CASTING BRUSHES.



Square Casting Brush.
Made from 4 to 6 rows, and from 2 to 5 inch
length of wire.

4	rows	2-inch	wire,	per doz.,	\$5 50
4	"	2½	"	"	6 00
4	"	3	"	"	6 50
4	"	3½	"	"	7 00
4	"	4	"	"	7 50
4	"	4½	"	"	8 00
4	"	5	"	"	8 50
5	"	2	"	"	6 50
5	"	2½	"	"	7 00
5	"	3	"	"	7 50
5	"	3½	"	"	8 00
5	"	4	"	"	8 50
5	"	4½	"	"	9 00
5	"	5	"	"	9 50
6	"	3	"	"	9 00
6	"	4	"	"	10 50
6	"	5	"	"	12 00



Round Casting Brush.
Made from 4½ to 8 inch wire.

4½	inch	wire.....	per doz.,	\$7 00
6	"	"	"	9 00
8	"	" (long handles)	"	12 00

PERFORATED SHEET METALS

OF ALL KINDS,

Steel, Iron, Zinc, Brass, Copper and Tin,

MADE TO ORDER.

IN WRITING, state the kind of metal wanted—whether Iron (Black or Galvanized), Steel, Copper, Brass, Zinc, etc., etc.

Thickness of metal, by Brown & Sharp's American Gauge.

Size of sheet, both ways, with diagram showing margins or blank spaces.

Size and shape of holes, and distance between centres.

Send a sample or drawing, if possible, and state for what purpose the work is needed.

State number of sheets or amount required, in square feet.

PRICE LIST OF IRON WIRE.

Nos.	0000 to 2	3 to 9	10 & 11	12	13 & 14	15 & 16	17	18
Cts.	9	10	11	11½	12½	14	15	16 per lb.
BRIGHT MARKET WIRE	per ct. disct. from above list.							
“ CHARCOAL WIRE	“ “ “ “							
“ BAIL WIRE, Nos. 7 to 12.....	“ “ “ “							
ANNEALED MARKET WIRE.....	“ “ “ “							
“ FENCE WIRE, Nos. 8 & 9 ...	“ “ “ “							
“ GRAPE WIRE, Nos. 10 to 14.	“ “ “ “							
COPPERED MARKET WIRE.....	“ “ “ “							
“ BAIL WIRE, Nos. 7 to 12. ...	“ “ “ “							
“ FURNITURE SPRING WIRE	“ “ “ “							
ANNEALED BESSEMER STEEL WIRE..	“ “ “ “							

ANNEALED STONE OR WEAVING WIRE.

Nos.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
Cts. per lb.	14	15	16	19	20	21	22	23	24	25	26	28	29	30	32	33	35	37	40	45	55
Nos. 16 to 18, inclusive.....	per cent. discount from list.																				
“ 19 to 26,	“ “ “ “																				
“ 27 to 36,	“ “ “ “																				

EXTRA FINE STONE WIRE.

Nos.	37	38	39	40	41	42	43	44	45	46	47
Cts. per lb.	40	45	50	55	60	65	75	85	100	115	140
per cent. discount.											

TINNED WIRE.

Nos.	0 to 9	10 & 11	12 to 14	15 & 16	17	18
Cts.	15	16	17	17½	18	18½ per lb.
TINNED MARKET WIRE.....	per cent. discount.					
TINNED BAIL WIRE, Nos. 7 to 14	“ “ “ “					
PATENT TINNED WIRE	“ “ “ “					

Two cents added for patent process.

TINNED STONE WIRE.

Nos.	18	19 & 20	21 & 22	23 & 24	25	26	27	28	29	30	31	32	33	34	35	36
Cts. per lb.	18½	19	20	21	22	23	24	25	26	27	28	32	33	34	40	48
Nos. 18 to 31, inclusive.....	per cent. discount from list.															
“ 32 to 36,	“ “ “ “															

TINNED BROOM WIRE.

Nos.	18 to 20	21 & 22	23 & 24
Cts. per lb.	20	21	22
per cent. discount.			

PATENT GALVANIZED TELEGRAPH WIRE.

Our Galvanizing is done by a PATENT PROCESS which insures a more complete union of the metals and smoothness of finish than any other.

(Put up in half-mile bundles.)

EX. B. B.	Nos.	7 to 9	10 & 11	12
	Cts.			per lb., net.
B. B.	Nos.	7 to 9	10 & 11	12
	Cts.			per lb., net.
B.,	cents per lb. less than B. B.			
Steel,	“ “ “ “			

WIRE ROPE.

PRICE LIST OF WIRE ROPE.

For Hoisting and Rigging.

No.	1	Rope of 133 Wires, $6\frac{3}{4}$ in. circum., strength 74 tons, \$1 17 per foot, net.
"	2	" " 6 " " 65 " 87 " "
"	3	" " $5\frac{1}{2}$ " " 54 " 77 " "
"	4	" " 5 " " $43\frac{1}{2}$ " 65 " "
"	5	" " $4\frac{3}{8}$ " " 35 " 59 " "
"	6	" " 4 " " $27\frac{1}{2}$ " 41 " "
"	7	" " $3\frac{1}{2}$ " " 20 " 33 " "
"	8	" " $3\frac{1}{4}$ " " 16 " 29 " "
"	9	" " $2\frac{3}{4}$ " " 11 " 23 " "
"	10	" " $2\frac{1}{2}$ " " 8 " 19 " "
"	$10\frac{1}{4}$	" " 2 " " $5\frac{1}{2}$ " 16 " "
"	$10\frac{1}{2}$	" " $1\frac{5}{8}$ " " $4\frac{1}{4}$ " 13 " "
"	$10\frac{3}{4}$	" " $1\frac{1}{2}$ " " $3\frac{1}{2}$ " 11 " "
"	11	" " 49 Wires, 4 " " 36 " 54 " "
"	12	" " $4\frac{1}{4}$ " " 30 " 43 " "
"	13	" " $3\frac{3}{4}$ " " 25 " 38 " "
"	14	" " $3\frac{1}{2}$ " " 20 " 30 " "
"	15	" " 3 " " 16 " 26 " "
"	16	" " $2\frac{5}{8}$ " " $12\frac{1}{2}$ " 21 " "
"	17	" " $2\frac{1}{2}$ " " $8\frac{3}{4}$ " 16 " "
"	18	" " $2\frac{1}{4}$ " " 7 " 13 " "
"	19	" " $1\frac{3}{4}$ " " $5\frac{1}{2}$ " 12 " "
"	20	" " $1\frac{1}{2}$ " " $4\frac{1}{2}$ " 10 " "
"	21	" " $1\frac{1}{4}$ " " $2\frac{1}{2}$ " 8 " "
"	22	" " $1\frac{1}{4}$ " " $2\frac{1}{2}$ " 7 " "
"	23	" " $1\frac{1}{8}$ " " $1\frac{3}{4}$ " 6 " "
"	24	" " 1 " " $1\frac{1}{8}$ " 5 " "
"	25	" " $\frac{7}{8}$ " " 1 " 4 " "
5 inch diameter Tiller Rope, 22 cents per foot.		
18 " " "		

GALVANIZED CHARCOAL WIRE ROPE.

For Guys and Ships' Rigging.

6 in. circum.,	Weight 30 lbs. per Fathom, strength 50 tons, 13 cents per lb.
$5\frac{1}{2}$	" " 26 " " 43 " 13 "
$5\frac{1}{4}$	" " 24 " " 40 " 13 "
5	" " 22 " " 35 " 14 "
$4\frac{3}{4}$	" " 20 " " 33 " 14 "
$4\frac{1}{2}$	" " 18 " " 30 " 14 "
$4\frac{1}{4}$	" " 16 " " 26 " 14 "
4	" " 14 " " 23 " 14 "
$3\frac{3}{4}$	" " 12 " " 20 " 14 "
$3\frac{1}{2}$	" " 10 " " 16 " 15 "
$3\frac{1}{4}$	" " $8\frac{1}{2}$ " " 14 " 15 "
3	" " $7\frac{1}{2}$ " " 12 " 15 "
$2\frac{3}{4}$	" " $6\frac{1}{2}$ " " 10 " 16 "
$2\frac{1}{2}$	" " $5\frac{1}{2}$ " " 9 " 16 "
$2\frac{1}{4}$	" " $4\frac{1}{2}$ " " 8 " $16\frac{1}{2}$ "
2	" " $3\frac{1}{2}$ " " 7 " 17 "
$1\frac{3}{4}$	" " $2\frac{3}{4}$ " " 5 " $17\frac{1}{2}$ "
$1\frac{1}{2}$	" " $2\frac{1}{4}$ " " $3\frac{1}{2}$ " $19\frac{1}{4}$ "
$1\frac{1}{4}$	" " $1\frac{3}{4}$ " " $2\frac{1}{2}$ " 21 "
1	" " $1\frac{1}{4}$ " " 2 " 23 "

FOR THE PREVENTION and SUPPRESSION OF FIRE

IMPORTANT TO MILL OWNERS.

To no class of manufacturing industries is the CONSTANT DANGER OF FIRE GREATER THAN TO MILLS OF ALL KINDS. Manufacturing and storing all varieties of highly inflammable material, TOO GREAT a precaution AGAINST FIRE, or its SUPPRESSION when once started, cannot be taken. Built frequently on the outskirts of towns, or completely isolated or inaccessible to an organized fire department, the PRESENCE OF SAFEGUARDS AGAINST or appliances to EXTINGUISH can be well appreciated. The efficiency of the articles shown has been established, and many of the largest insurance companies RECOMMEND and INSIST upon their introduction in hazardous risks.

The articles shown on this and the following page will be recognized in their several intended offices as admirably adapted to the uses of manufacturers who desire to reduce the risk of fire on their premises.



Tinned Wire Gas-Jet Guard.

7 inches diameter, or made to suit any requirement. \$4.50 per doz.

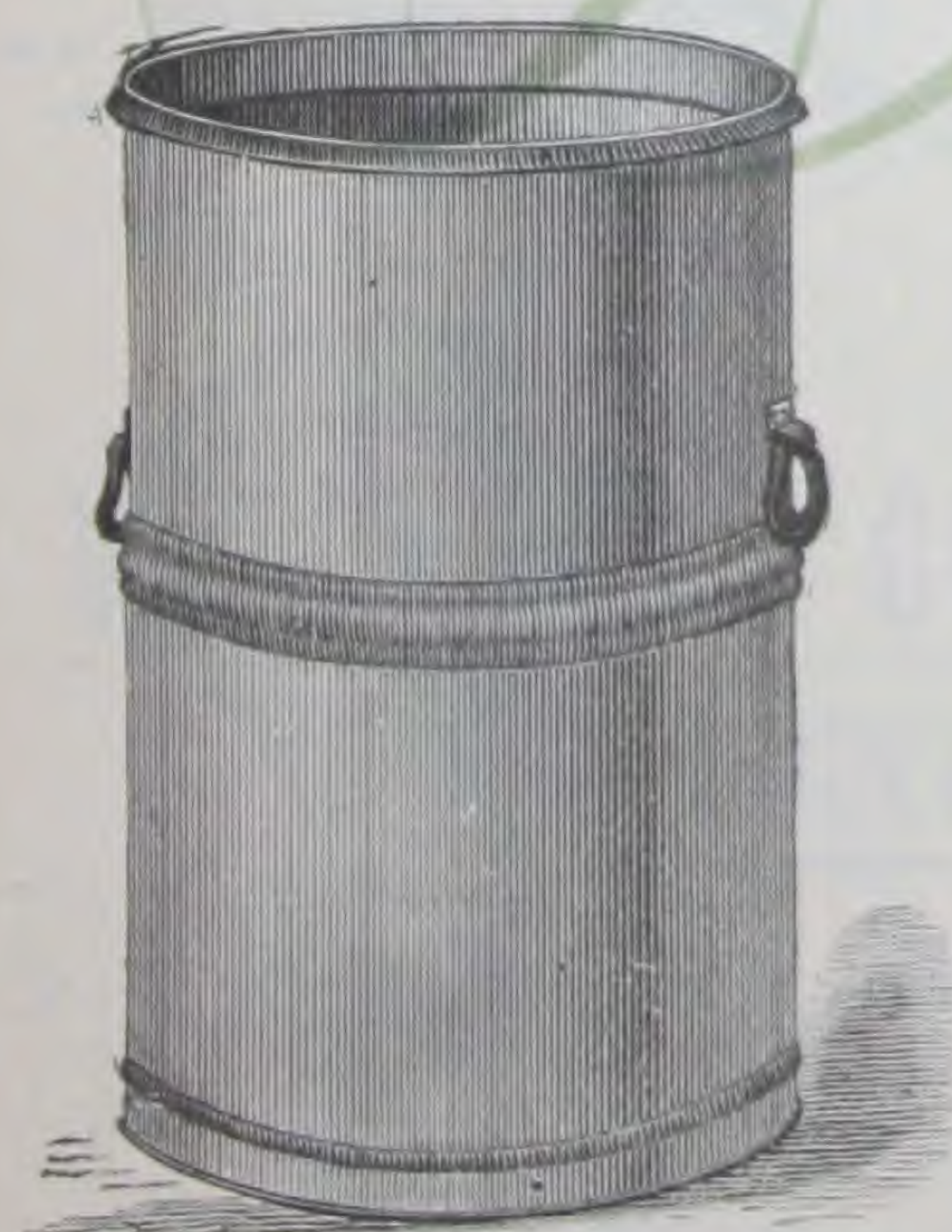
Discount,



**Galvanized Iron Fire Pails,
DOUBLE BOTTOM.**

10-quart.....	\$4 50 per doz.
12 "	5 00 "
14 "	5 50 "

Discount,



Galvanized Ash Cans.

No. 3, 15x26 inches	\$4 50
" 4, 17x26 "	5 50
" 5, 18x26 "	5 50
" 6, 20x26 "	6 50

Discount,

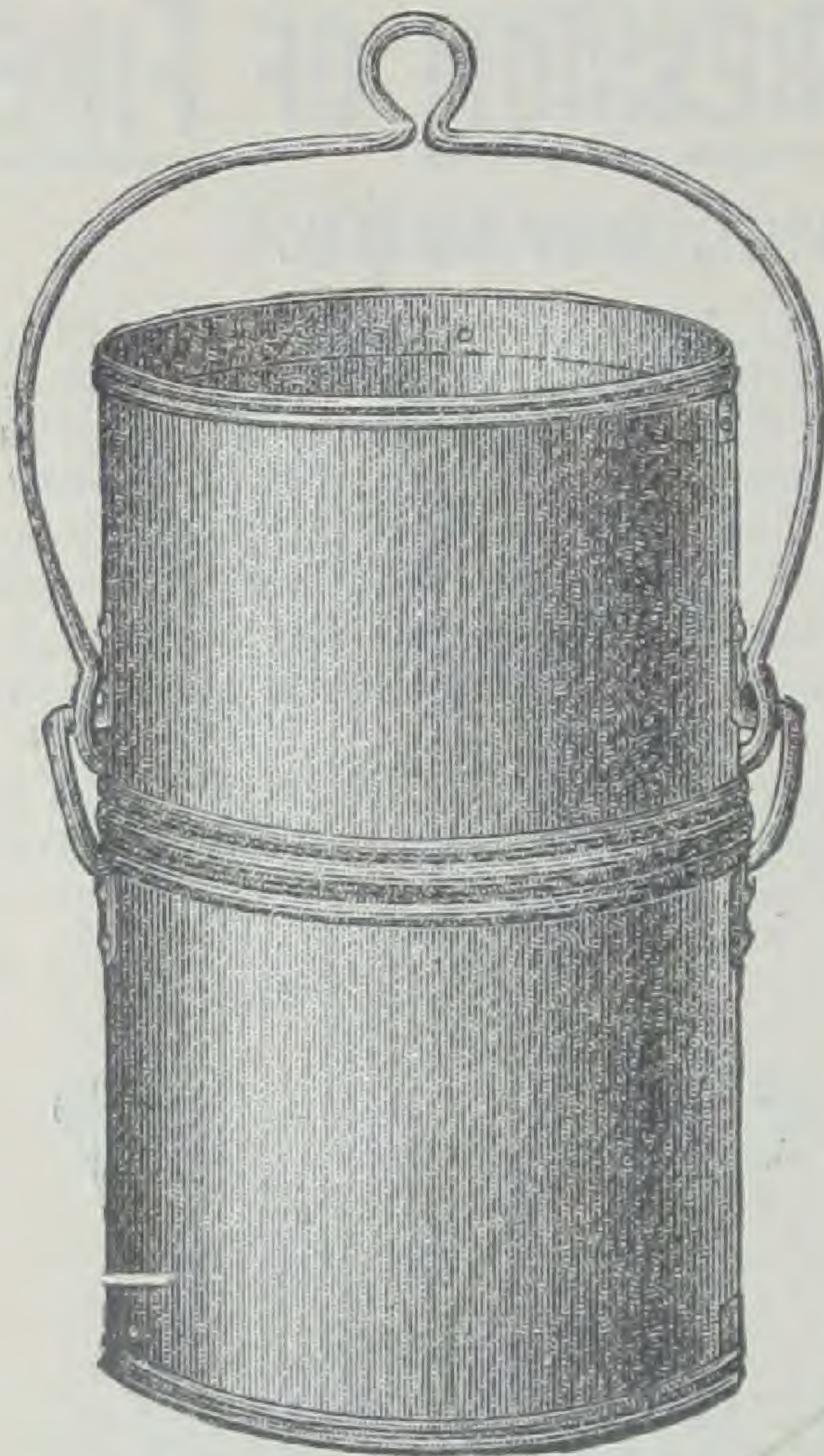


Galvanized Oil-Waste Cans.

Size, 11 inches diameter, 15 inches high, \$15.00 per dozen.

Discount,

For the Prevention and Suppression of Fire.—Continued.



Furnace-Room Hoisting Ash Can.

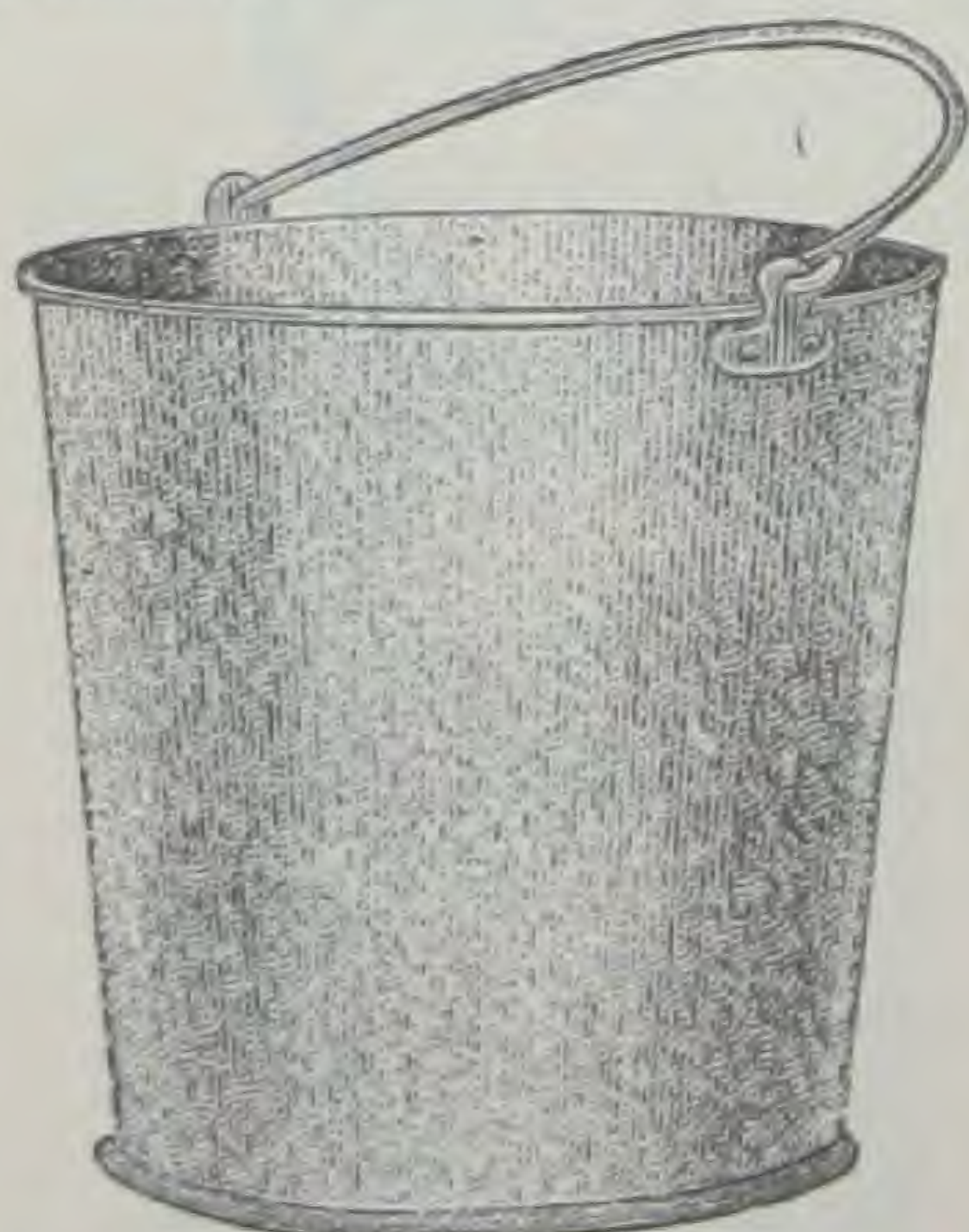
Galvanized Ash Cans,

For Storage or Hoisting Purposes in
Furnace Rooms,

Will be admitted, at a cursory glance at the illustrations, as being far superior to the barrels, boxes or other receptacles commonly used, both as regards fire-proof qualities and durability.

	EACH.
No. 3, 15x26 inches	\$6 50
" 4, 17x26 "	7 25
" 5, 18x26 "	7 50
" 6, 20x26 "	8 50

Discount,



Extra Heavy Galvanized Pails.

For Foundry, Stable,
Brewery, etc., use.

10-quart	\$5 50 per dozen.
14 "	6 25 "

Discount,



Nos. 2 and 3
Extra Heavy Oil-Waste Can.

Extra Heavy.

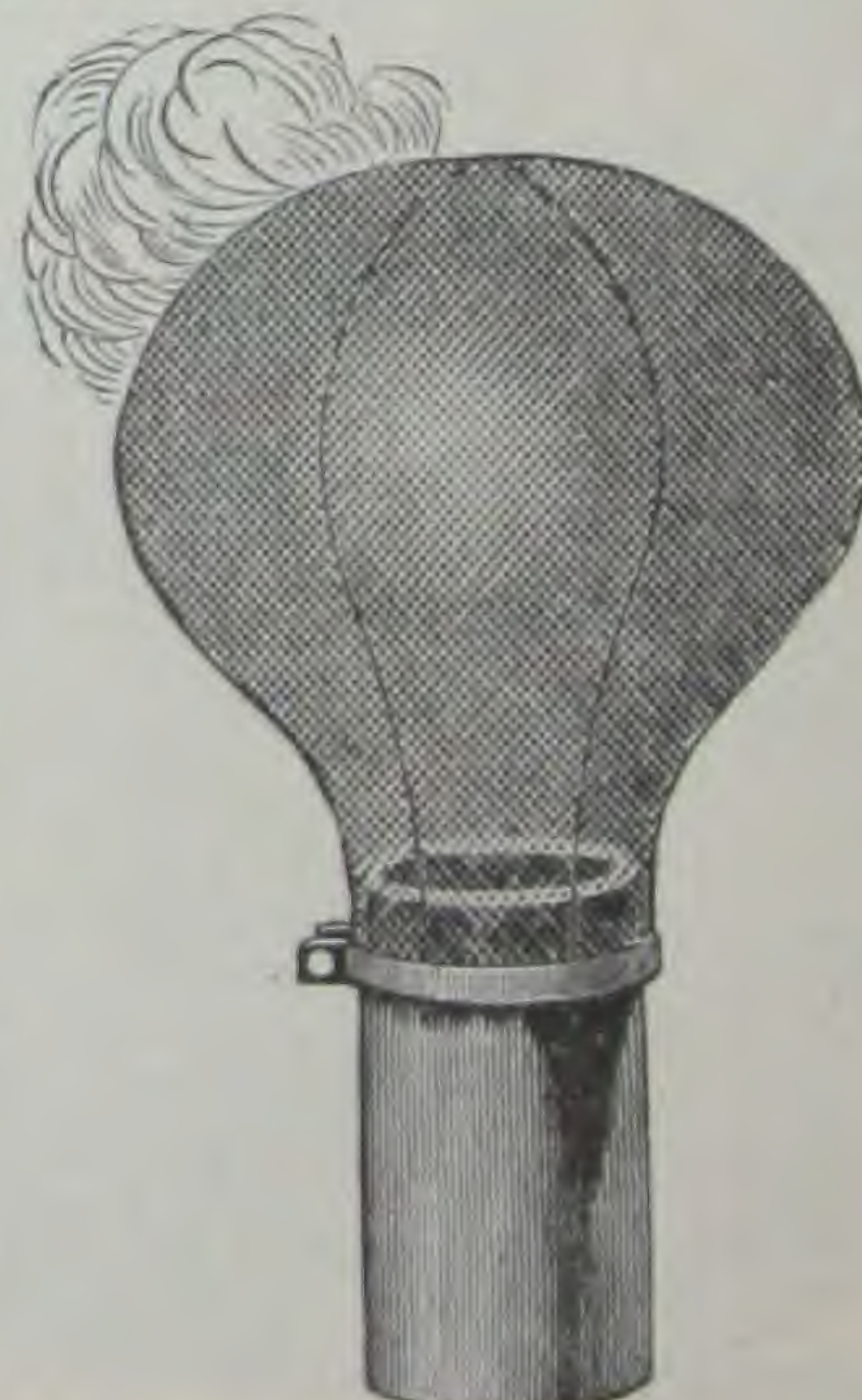
PRICES.

EACH.

No. 2, 18x25 inches high, inside measurement.....	\$7 00
No. 3, 20x25 inches high, inside measurement.....	8 00

Designed especially for machinery rooms.

Discount,



Smoke-Stack Spark Arresters.

Made of any shape, size, mesh, wire and fastening required.

Prices on application.

PRICE LIST OF "HET ANKER"
SILK BOLTING CLOTH.
(40 INCHES WIDE.)

No.	000	26	Mesh	.....	\$1 35	per yard.
"	00	28	"	.....	1 40	" "
"	0	30	"	.....	1 45	" "
"	1	36	"	.....	1 50	" "
"	2	50	"	.....	1 55	" "
"	3	54	"	.....	1 65	" "
"	4	60	"	.....	1 70	" "
"	5	64	"	.....	1 75	" "
"	6	70	"	.....	1 85	" "
"	7	80	"	.....	1 95	" "
"	8	90	"	.....	2 00	" "
"	9	100	"	.....	2 10	" "
"	10	110	"	.....	2 20	" "
"	11	120	"	.....	2 40	" "
"	12	125	"	.....	2 65	" "
"	13	130	"	.....	2 75	" "
"	14	150	"	.....	3 20	" "
"	15		"	.....	3 65	" "
"	16		"	.....	3 95	" "
"	17		"	.....	4 30	" "
"	9x	100	"	.....	2 45	" "
"	10x	110	"	.....	2 65	" "
"	11x	120	"	.....	2 75	" "
"	12x	125	"	.....	3 00	" "
"	9xx	100	"	.....	2 75	" "
"	10xx	110	"	.....	3 00	" "
"	11xx	120	"	.....	3 30	" "
"	12xx	125	"	.....	3 65	" "

WIRE SASH CORD AND ROPE
FOR LIGHTNING RODS.

				IRON. TINNED. COPPER.		
No.	3	Wire Cord,	1-8 inch diameter	.....	\$0 03	\$0 04 \$0 06
"	2	"	" 5-32 "	"	04	05 08
"	1	"	" 3-16 "	"	05	06 10
"	0	"	" 7-32 "	"	06	07 12
1-4 inch diameter Wire Rope, 49 Wires				....	07	08 16
5-16 "				....	09	10 20
3-8 "				....	10	12 25
7-16 "				....	12	14 35
1-2 "				....	14	18 45

WIRE, IRON AND BRASS WORK

OF GENERAL MERIT.



—FOR THE—

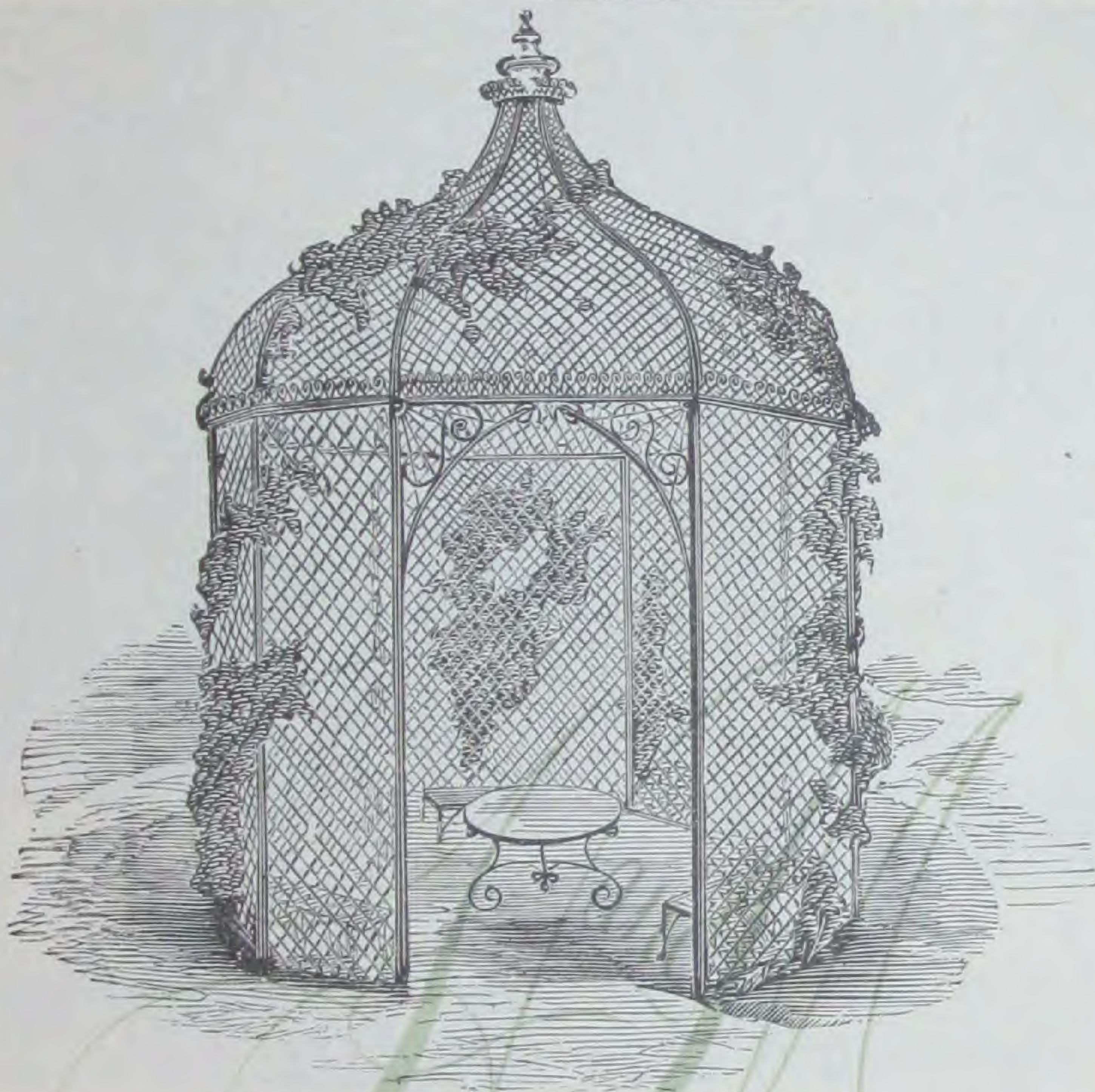
OFFICE, FARM, CHURCH,
LAWN, WORKSHOP, MILL,
NURSERY, PARLOR, ASYLUM,

EVERYWHERE!

—COMBINING—

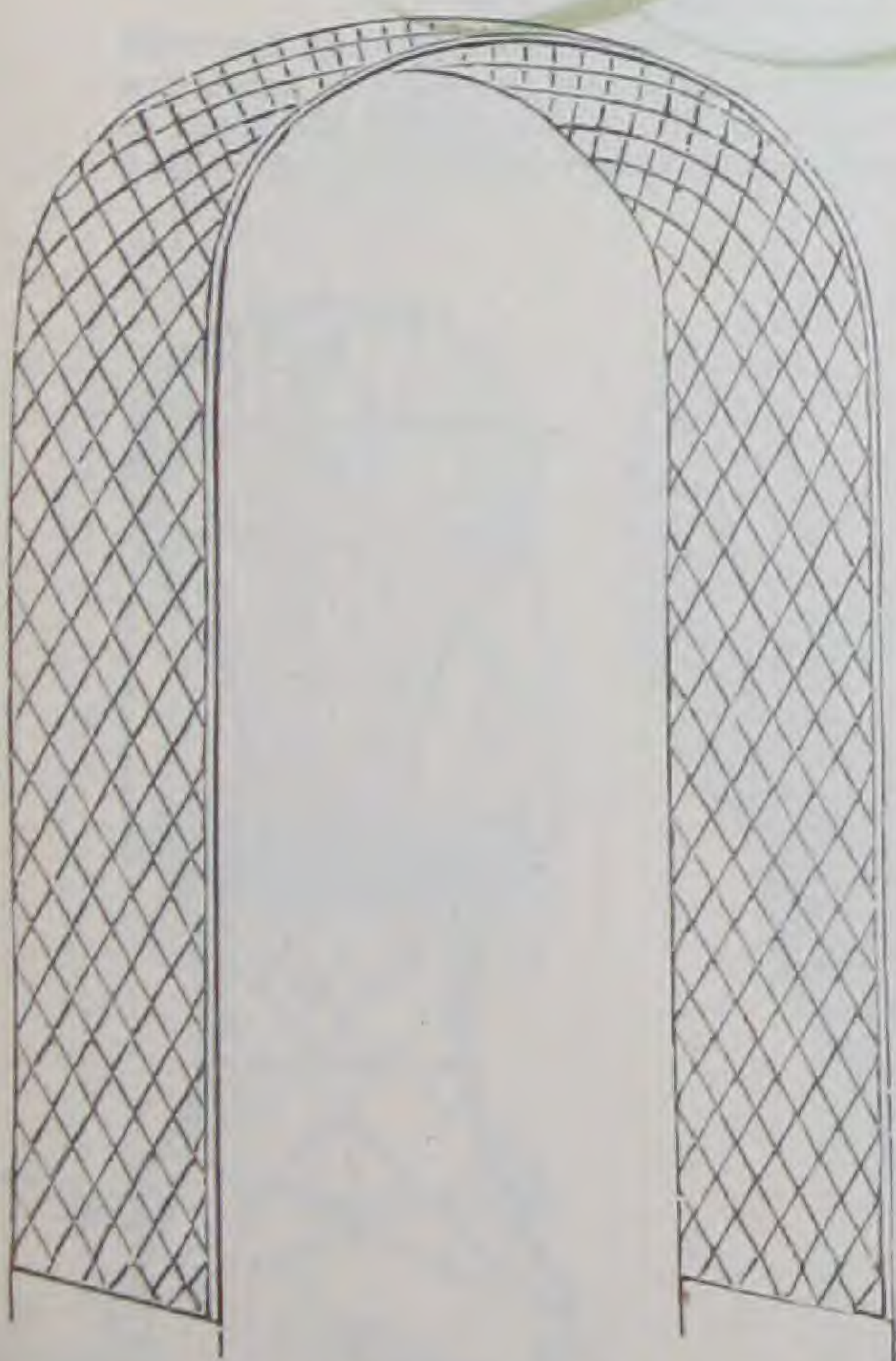
ELEGANCE, CONVENIENCE, COMFORT
AND SECURITY.

Plain & Ornamental GARDEN WIRE WORK

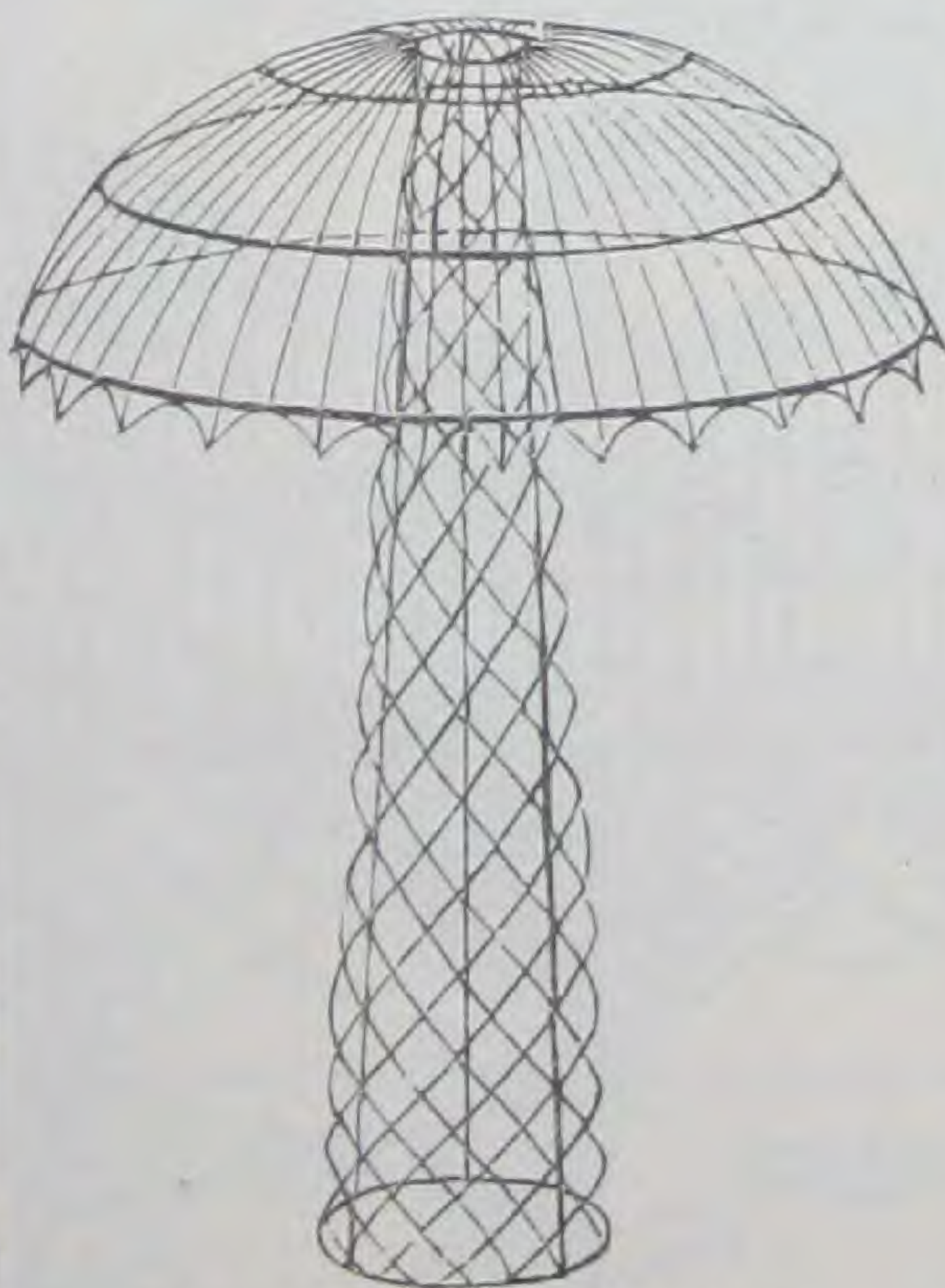


Galvanized Arbor or Summer House.

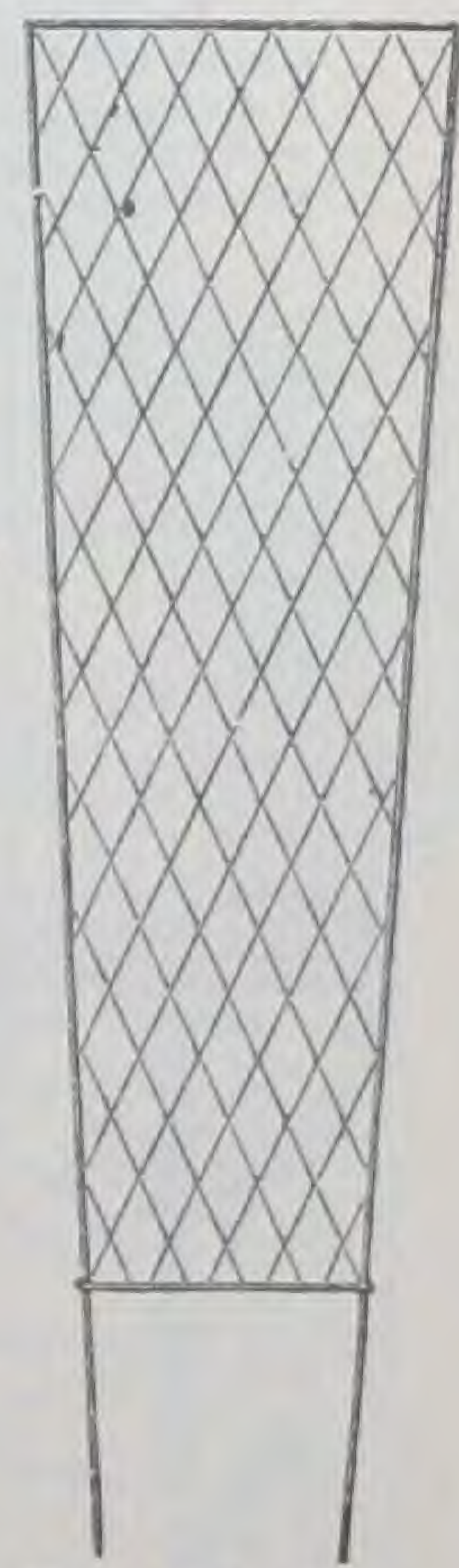
9 feet diameter, 12 feet high. Made in sections and strongly bolted together.
Prices on application.



Plain Garden Arch.



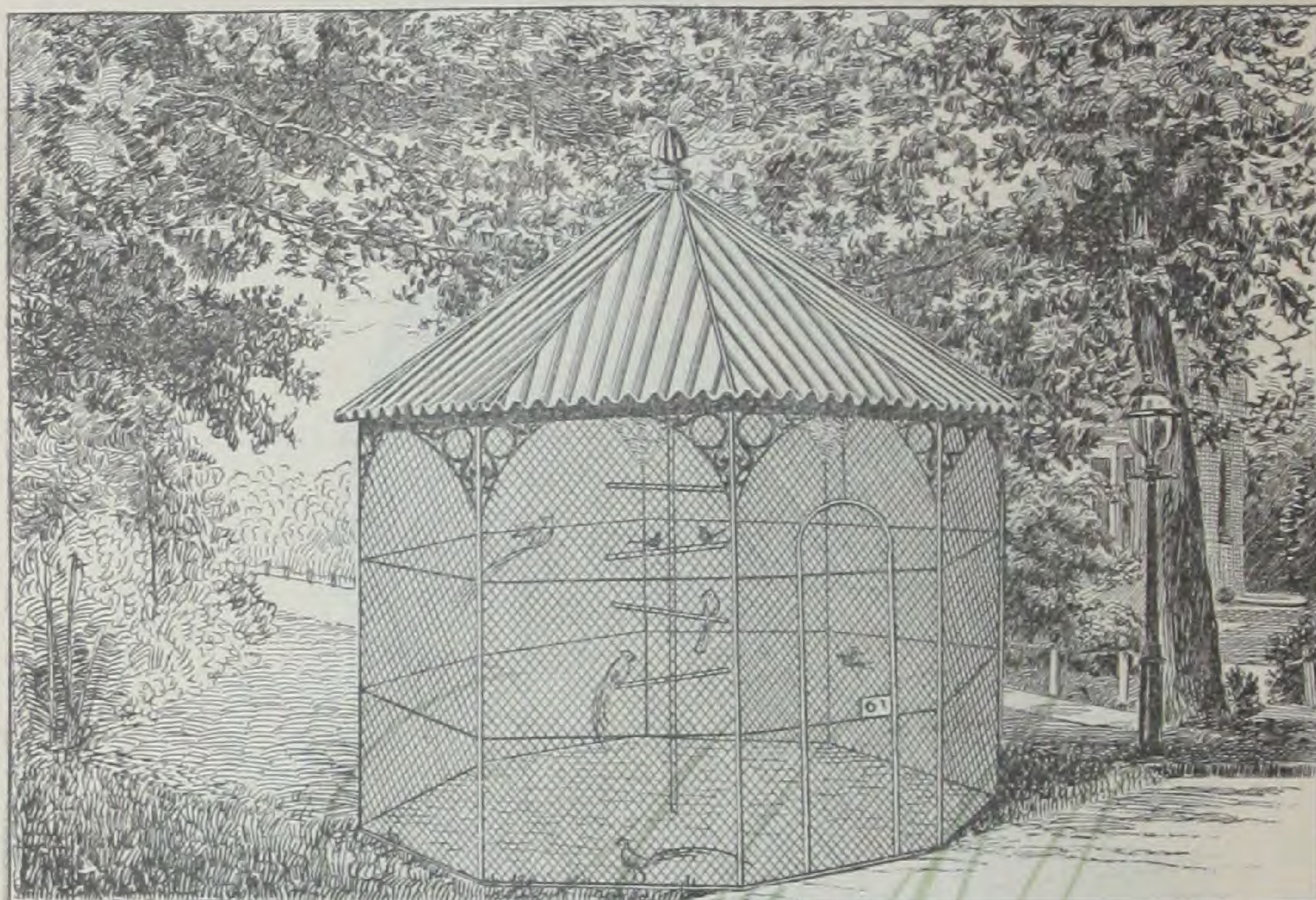
Umbrella Vine Trainer.



Plain Trellis Frame.

All of the goods shown on this page are made to order. In asking for estimates state whether painted or galvanized work is required.

Plain and Ornamental Garden Work.—Continued.



Aviary with Corrugated Roof.

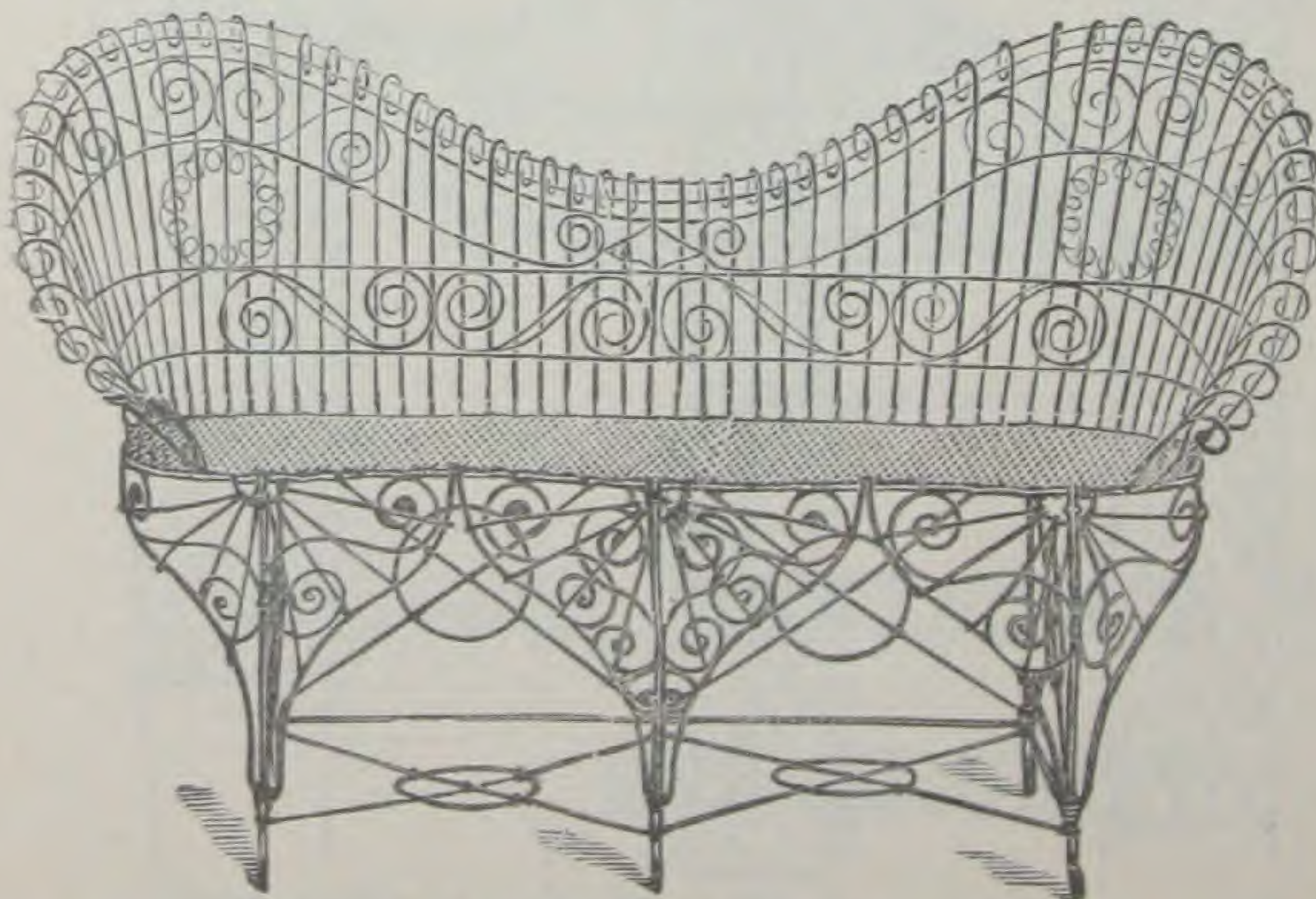
Price depends upon dimensions.

Estimates furnished on application.

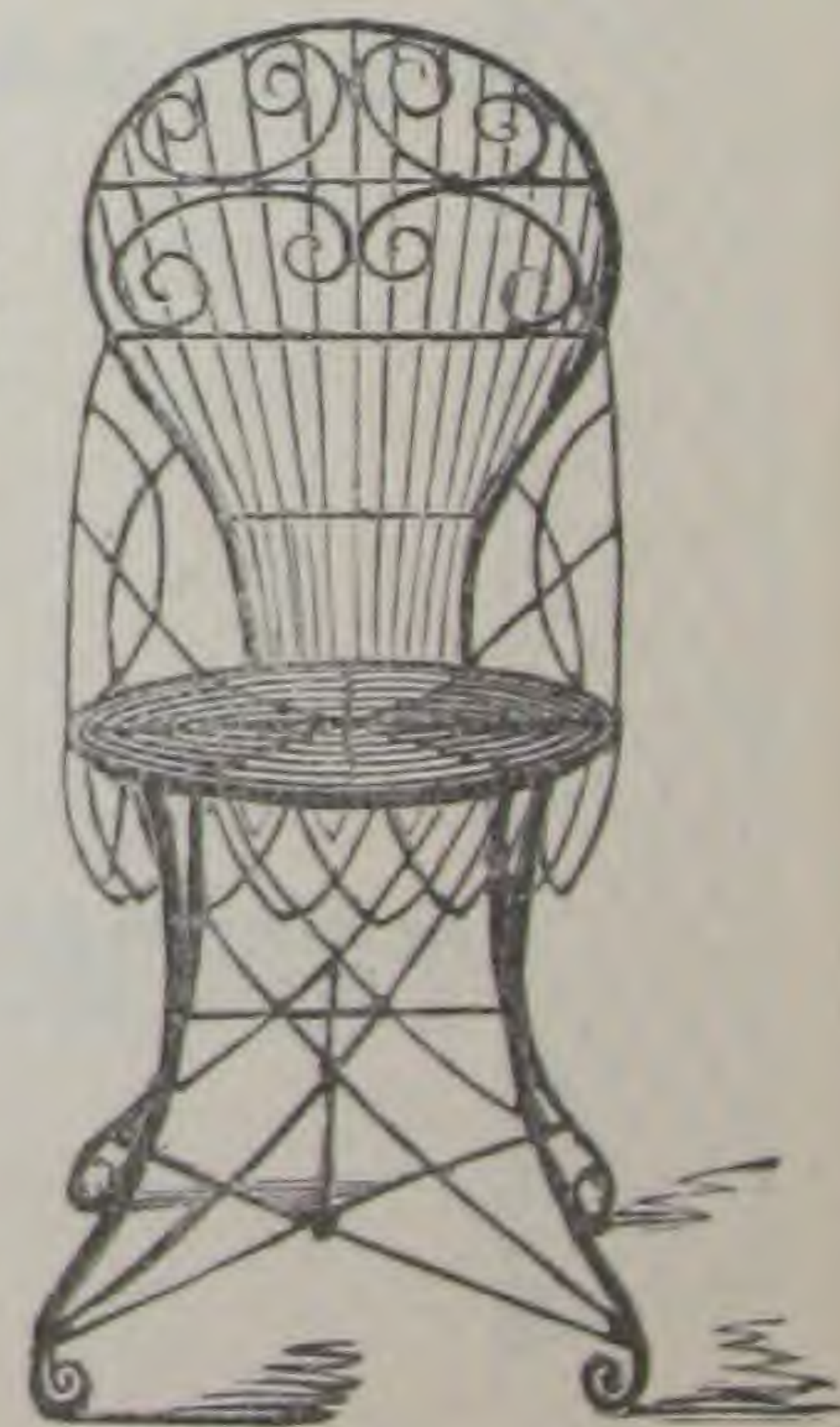
OUT DOOR AVIARIES.

We invite the attention of lovers of birds of plumage and song to this class of wire structure. It is composed of galvanized wire woven in a diamond-shaped mesh, and can be covered by corrugated galvanized iron roofs, and provided with a door, perches, and all necessary requirements. It is made in flat sections for convenience in shipping, and can be readily bolted together and erected by any gardener or mechanic. This work is made to order to suit individual requirements.

To those who wish to confine a number of birds in ample enclosures where they may live with almost the same liberty of action as they could enjoy in their native woodlands, this class of habitation is desirable, as the unrestrained association with their kind must be conducive to activity and song, as well as adding a very attractive feature to the grounds on which such an aviary is erected. In writing for estimates, state all the detail of dimensions, etc.

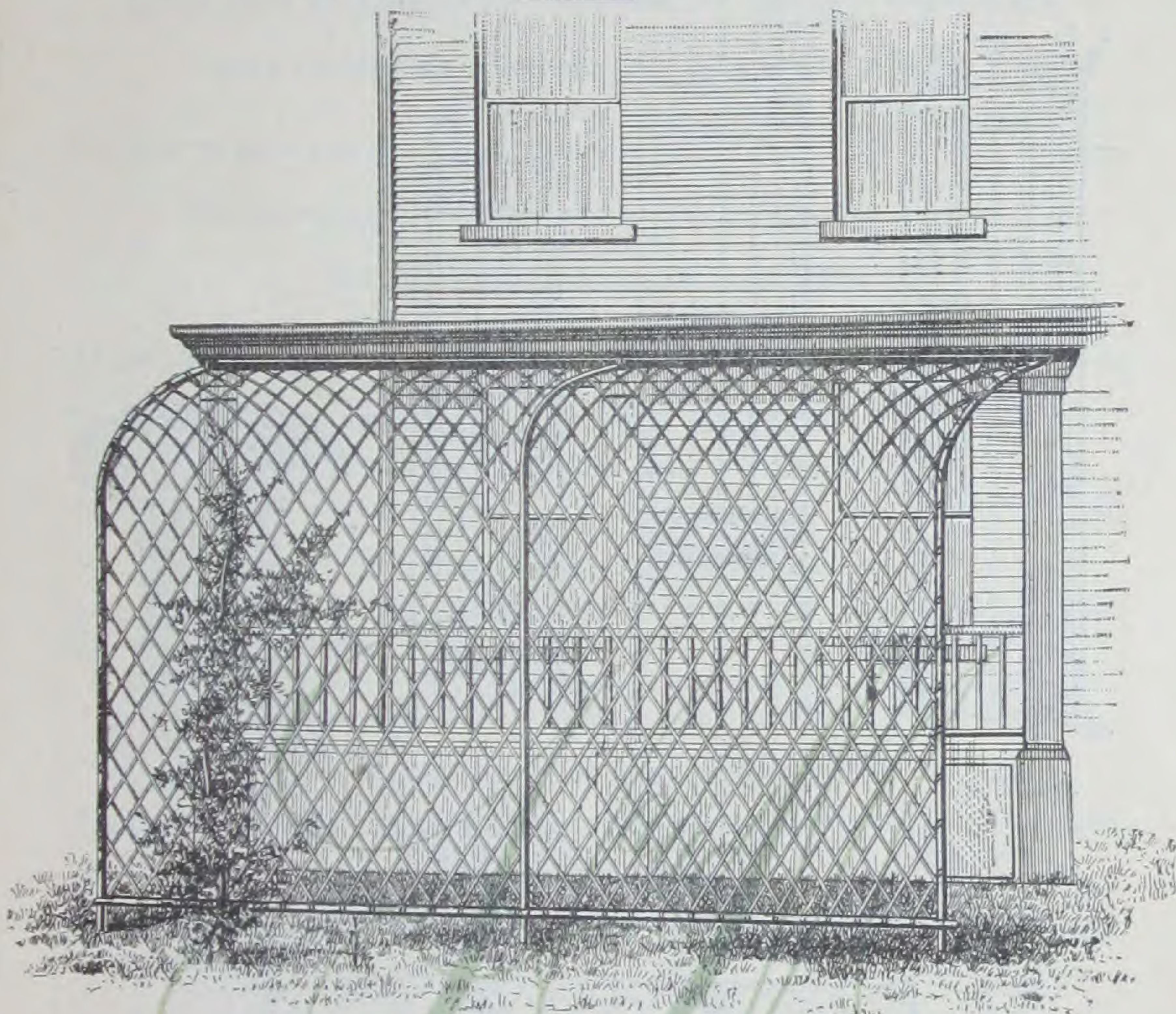


Galvanized Wire Settee.



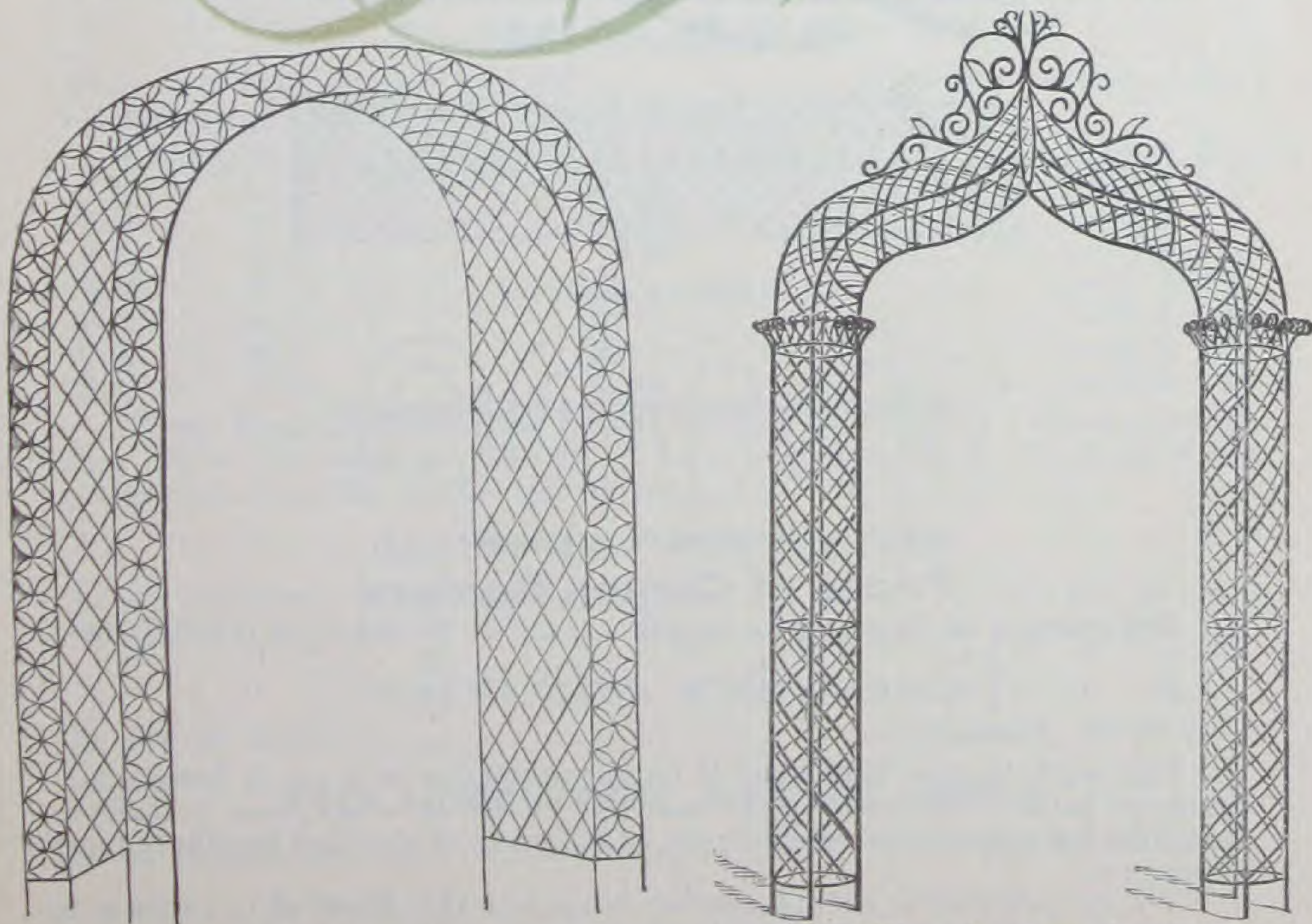
Galvanized Wire Chair.

Plain and Ornamental Garden Wire Work.—Continued.



Trellis Frames.

Made to order in any form to meet individual requirements. Estimates furnished on application.



Border Garden Arch.

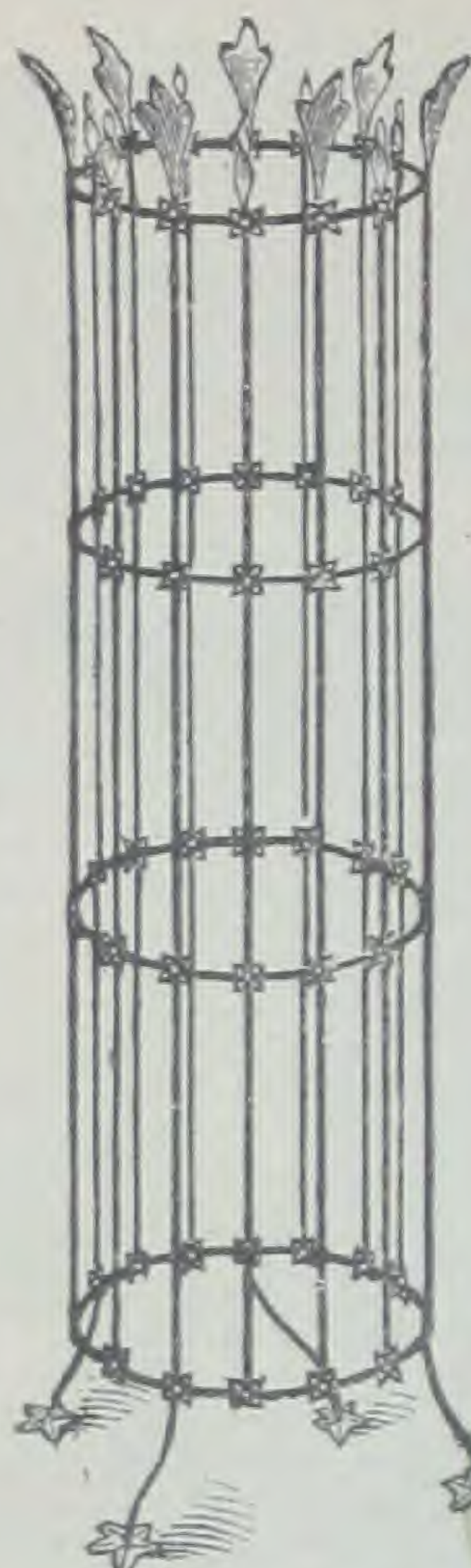
5 feet span, 9 feet high, 3 feet deep.

Pillar Garden Arch.

5 feet span, 9 feet high, 12 inches deep.

Or made to suit requirements.

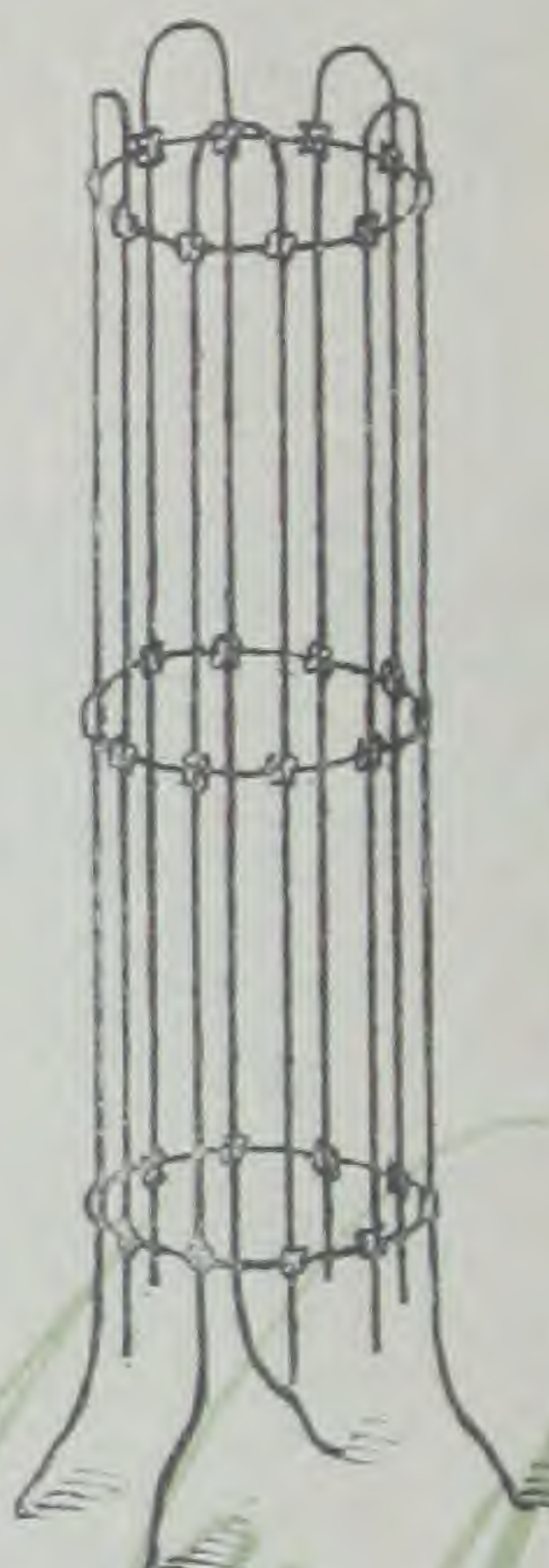
Plain and Ornamental Garden Wire Work.—Continued.



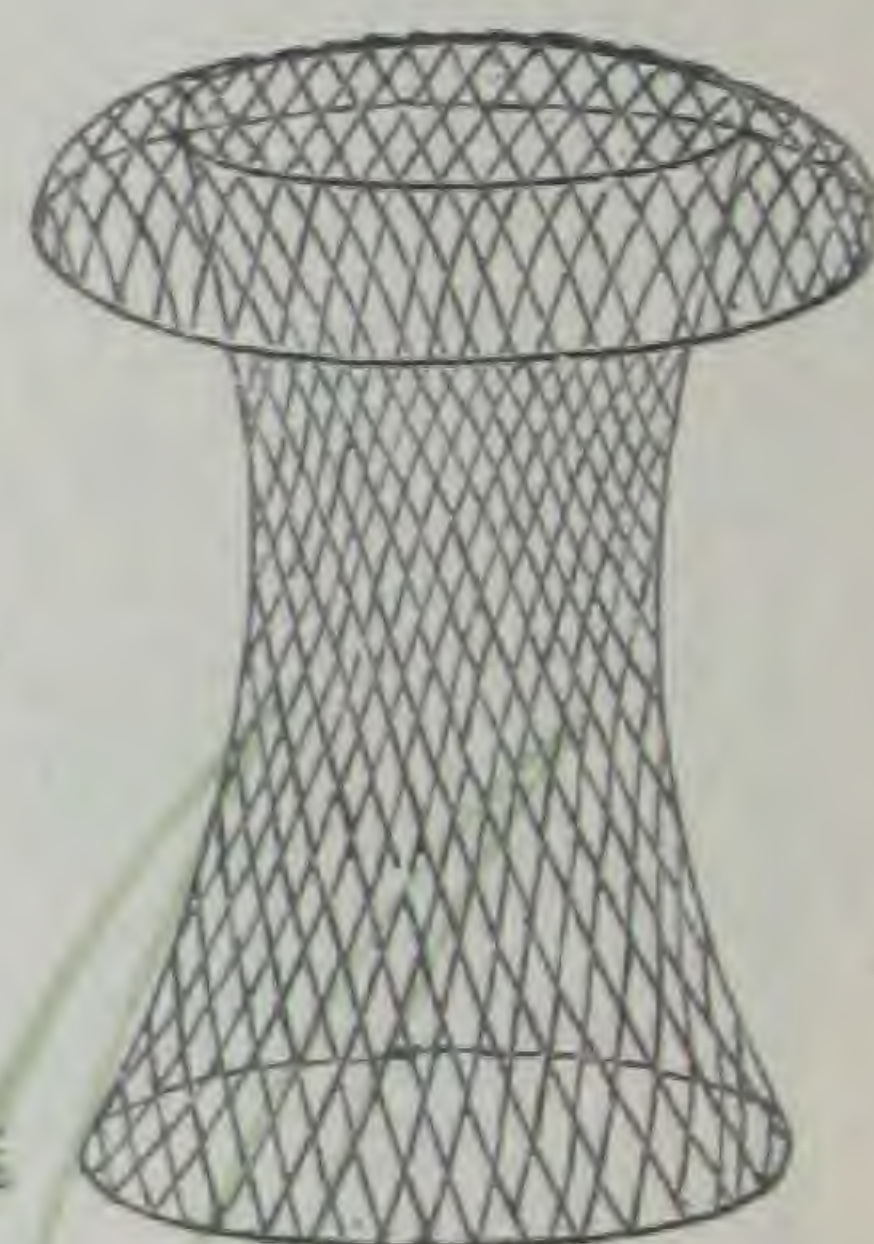
No. 1 Tree Guard,
5 feet high.



No. 37 Lock-Bar
Tree Guard,
5 ft. high.



No. 2 Tree Guard.
4½ feet high.



Galvanized Garden Stool.

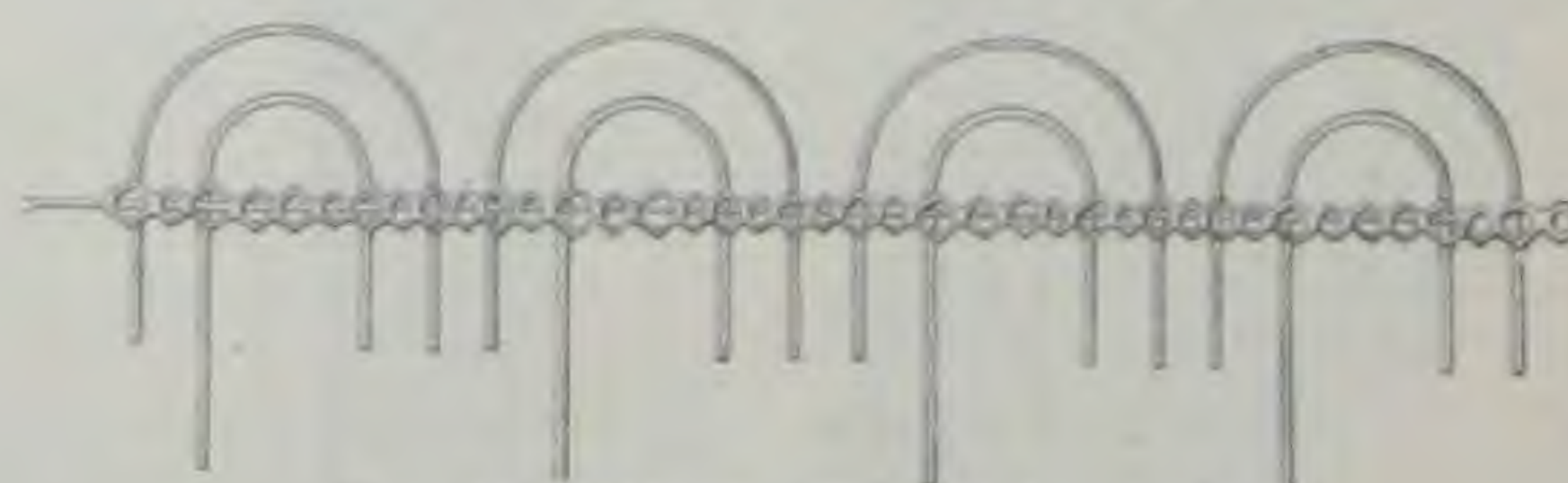
WIRE GARDEN BORDERS.



No. 20 Pattern, Circle Top.



No. 21 Pattern, Gothic Top.



No. 33 Pattern, Patent Lock-Bar.

Prices of Garden Borders.

No. 20 Pattern,	$\frac{1}{8}$ in. Wire,	12 in. height	.....	35 cents per running foot.
" 21 "	$\frac{1}{8}$ in. "	12 in. "	.....	40 " " "
" 38 "	$\frac{1}{4}$ in. "	15 in. "	.....	50 " " "

Discount,

This work is especially adapted for the protection of grass or flowers bordering on paths. Patterns No. 20 and No. 21 are of a character to make in long rolls for convenience of shipment, or in panels of specified lengths to form curves, etc.

We are prepared to submit special designs of this work, or to conform in manufacture with those submitted by customers.

Price List of Plain and Ornamental Garden Wire Work.

GALVANIZED ARBOR OR SUMMER HOUSE.

8 feet diameter, 12 feet high.

Octagon, as shown in cut, without seats and table..... \$125 00 each.
 " " " with " " " 175 00 "

The above is put up in sections and bolted together strongly.

BORDERED GARDEN ARCHES.

3 feet deep, 5 feet span, 9 feet high.

As per cut shown..... \$27 50 each.

PILLAR GARDEN ARCHES.

12 inches deep, 5 feet span, 9 feet high.

As shown in cut, Galvanized..... \$18 00 each.

PLAIN GARDEN ARCHES.

As per cut shown, any dimensions.....20c. per square foot.
 Galvanized after made.....25c. " " "

All of the above work can be made in dimensions to suit individual requirements. Estimates on application.

UMBRELLA TRAINERS.

4 feet 6 inches high, top 3 feet 6 inches in diameter, as per cut.... \$5 00 each.

TREE GUARDS.

No. 1, Painted, as per cut, 16 in. diameter,	$\frac{3}{8}$ in. Rods.....	\$ 8 50 each.
" 1, Galvanized, " " 16 in. " "	$\frac{3}{8}$ in. "	10 50 "
" 2, Painted, " " 12 in. " "	$\frac{1}{2}$ in. "	4 50 "
" 2, Galvanized, " " 12 in. " "	$\frac{1}{2}$ in. "	6 00 "
" 37, Painted, " " 16 in. " "	$\frac{3}{8}$ in. "	9 00 "
" 37, Galvanized, " " 16 in. " "	$\frac{3}{8}$ in. "	11 00 "

TRELLIS FRAMES.

Plain wire work, as shown in cut.....price, 20c. per square foot.
 Galvanized after made..... " 25c. " " "

6 ft. long, 18 in. wide at bottom, 24 in. wide at top	=10 ft. 6 in.
7 ft. " 18 in. " " 24 in. " "	=12 ft. 3 in.
8 ft. " 20 in. " " 26 in. " "	=15 ft. 4 in.
9 ft. " 20 in. " " 28 in. " "	=18 ft. 0 in.
10 ft. " 22 in. " " 30 in. " "	=21 ft. 8 in.
12 ft. " 24 in. " " 32 in. " "	=28 ft. 0 in.
15 ft. " 26 in. " " 36 in. " "	=38 ft. 9 in.
20 ft. " 30 in. " " 42 in. " "	=60 ft. 0 in.

These frames are made flat, for convenience of shipping. When required, they can be bent without difficulty to form a quarter circle. In fancy styles, prices vary from 25c. to 75c. per square foot.

GALVANIZED WIRE SETTEE.

As per cut shown, 5 feet long, 3 sittings.....\$20 00 each.
 " " " 4 " " 2 " 15 00 "

GALVANIZED WIRE CHAIR.

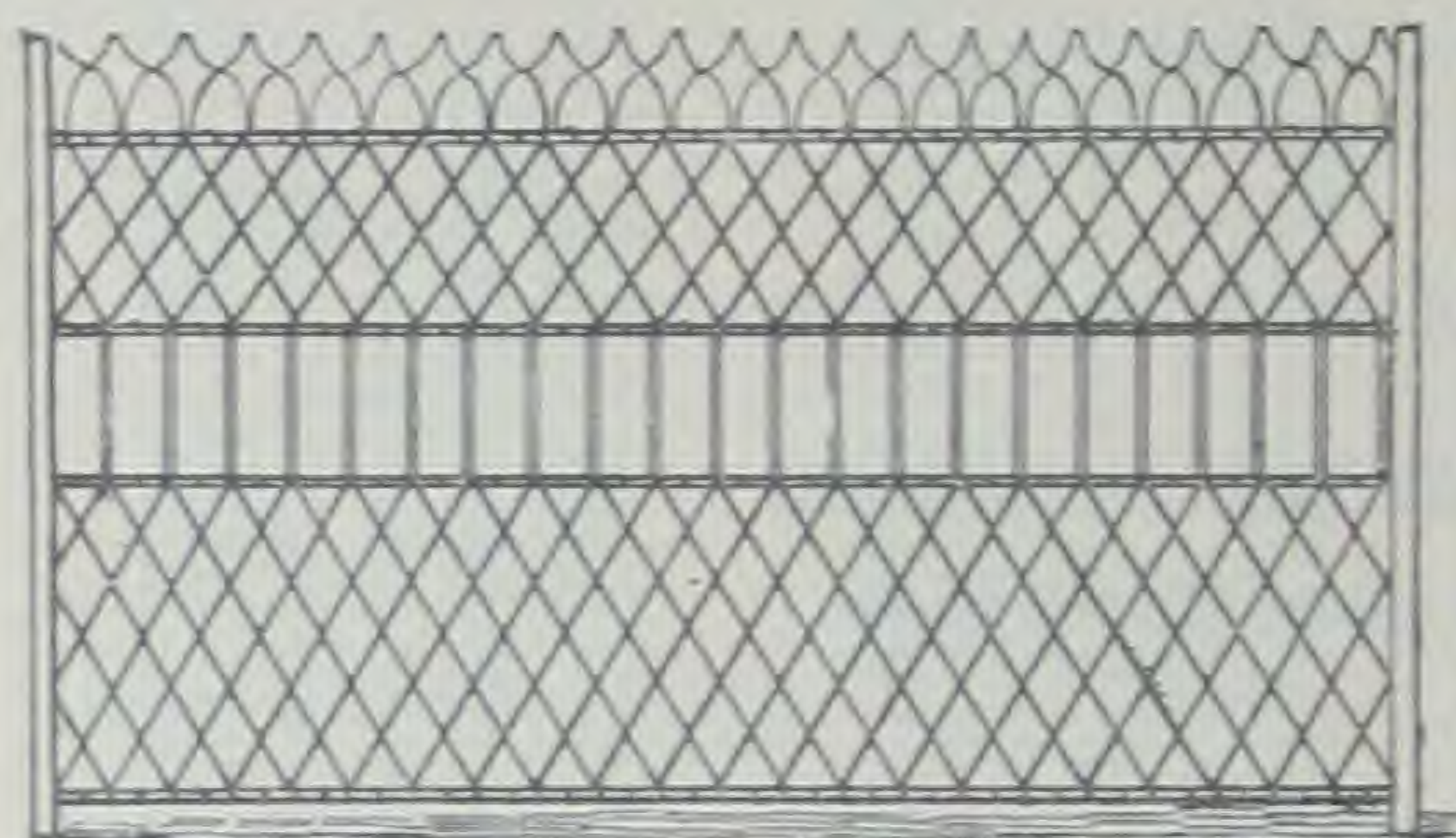
As per cut shown.....\$4 50 each.

GALVANIZED WIRE GARDEN STOOLS.

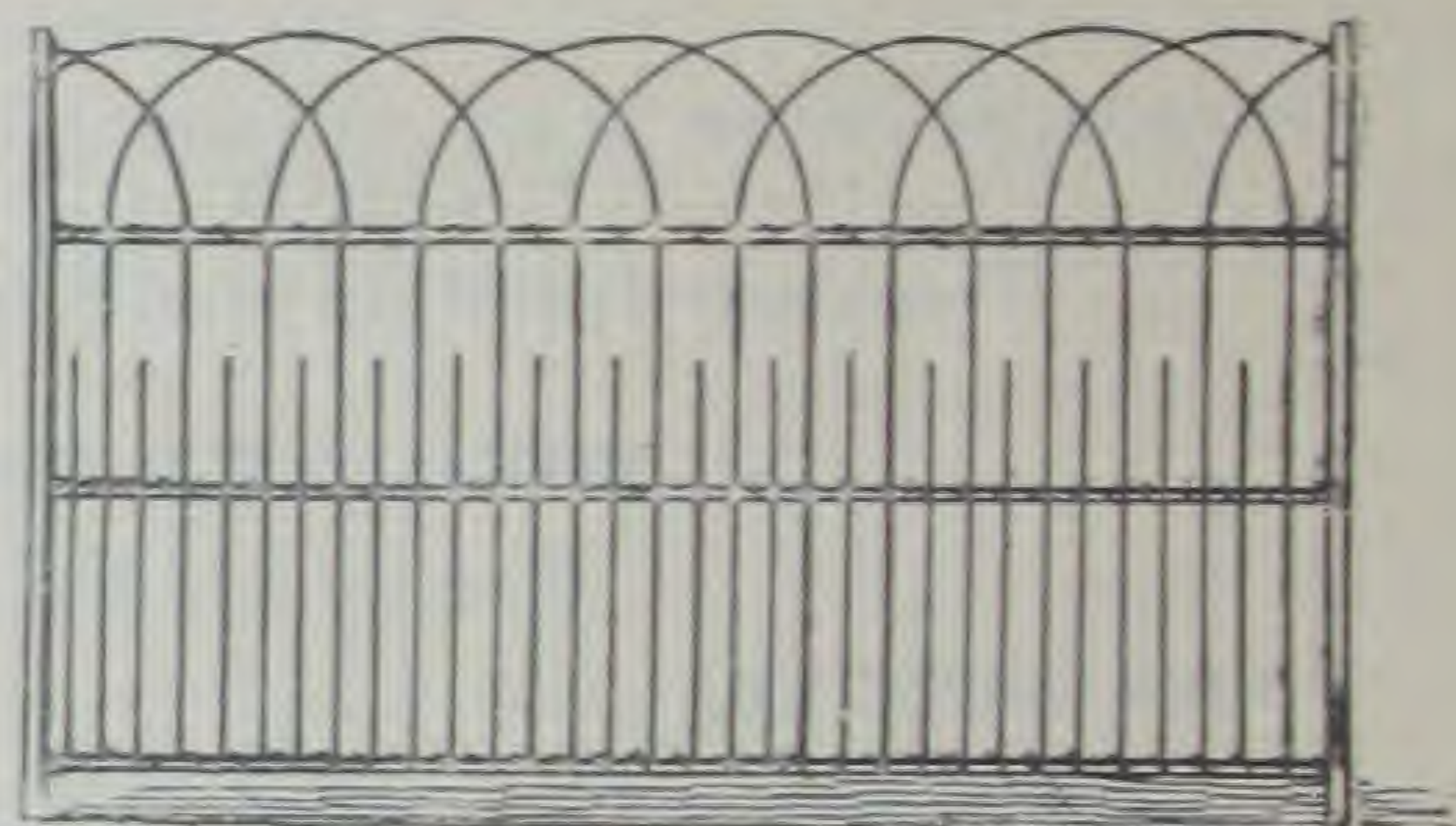
As per cut shown.....\$15 00 per dozen.

Discount,

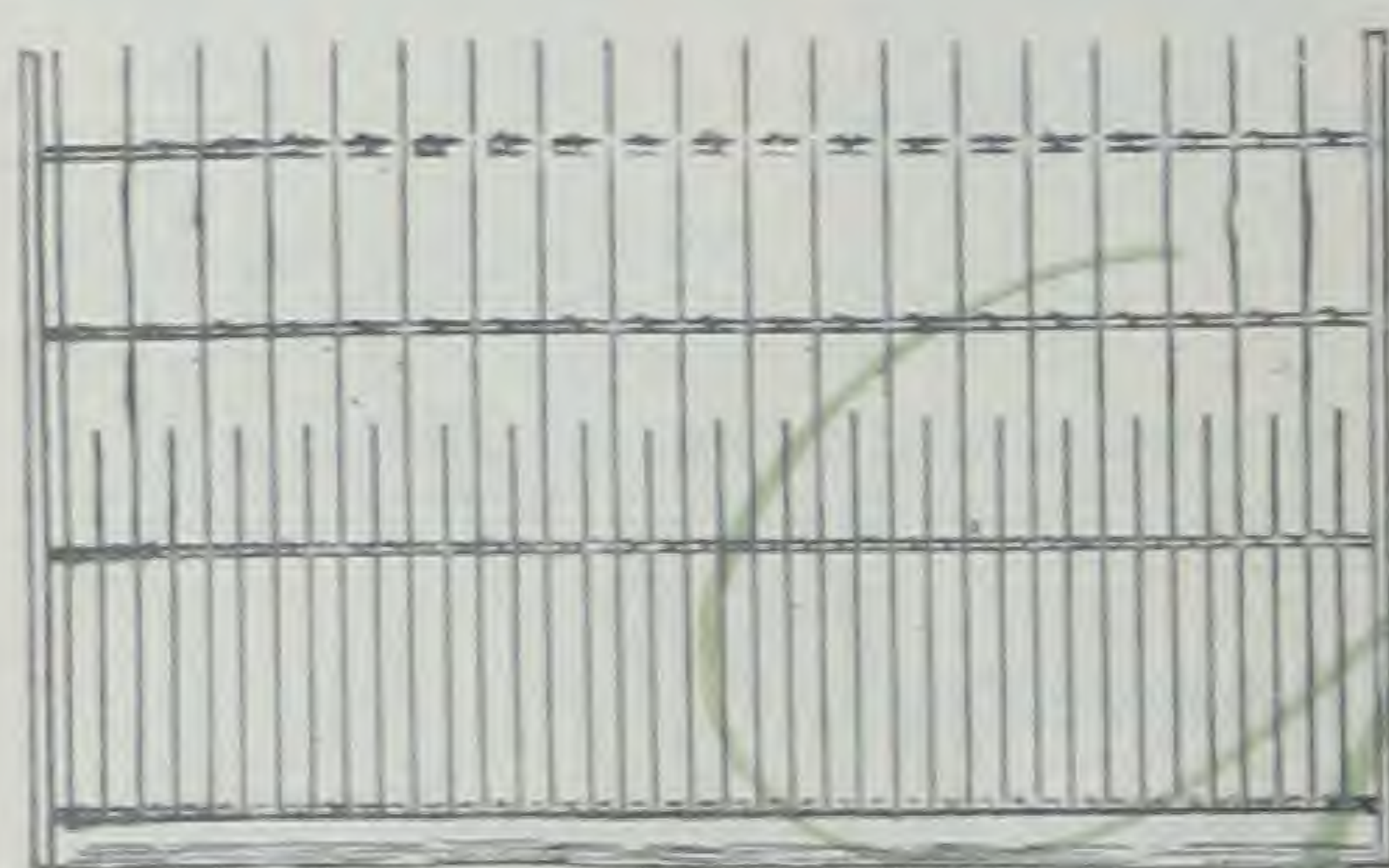
LIGHT LAWN FENCE.



Light Lawn Fence, No. 2.



Light Lawn Fence, No. 5.



Light Lawn Fence, No. 6.



Light Lawn Fence, No. 22.



Light Lawn Fence, No. 23.



Light Lawn Fence, No. 24.

These Lawn Fences are made in continuous lengths, and, for the convenience of shipping, can be rolled up in the same manner as the Galvanized Hexagon Netting. They are intended to be stapled to wood or fastened upon inch square iron posts. For a light Fence between gardens or pleasure grounds they are very popular when a cheaper Fence is required than we show elsewhere.

Prices of Light Lawn Fences.

No.	Pattern	3 ft. high,	$\frac{1}{8}$ in. wire,	3 in. space		\$2 35	per lineal yard.
No. 2	"	4 ft.	"	"	"	3 00	" "
" 5	"	3 ft.	"	"	"	1 25	" "
" 5	"	4 ft.	"	"	"	1 75	" "
" 6	"	3 ft.	"	"	"	1 25	" "
" 6	"	4 ft.	"	"	"	1 75	" "
" 22	"	3 ft.	"	"	"	1 25	" "
" 22	"	4 ft.	"	"	"	1 75	" "
" 23	"	3 ft.	"	"	"	1 25	" "
" 23	"	4 ft.	"	"	"	1 75	" "
" 24	"	3 ft.	"	"	"	2 35	" "
" 24	"	4 ft.	"	"	"	3 00	" "

Discount,

OFFICE WIRE WORK.

In presenting this list of designs and *approximate* prices of Wire Work, we are satisfied from the many favorable acknowledgments in our possession, from the officers of banking institutions and others from all sections, that Wire Work fulfills every requirement as regards graceful appearance, lightness, cleanliness, and withal affording absolute security against theft, intrusion and other annoyances.

Manufactured of a material susceptible of ever-variable conformation, safely transported and easily placed in position, its advantages over plate glass, or an unprotected counter or office, are apparent at a glance. When once in position its usefulness continues as long as its purpose remains.

To those unfamiliar with this class of work, the term "Wire Work" does not adequately convey to the mind the strength embodied in a web of wire, carefully put together, in which the meshes are crimped-woven so as to strengthen the work as well as to preserve the uniformity of the spaces and inserted into strong grooved iron frames in such a manner that the whole is virtually a wrought-iron railing; light, graceful, and yet more durable than cast-iron, wood and glass or any other material heretofore employed. Its adaptability to its intended purpose is simply perfect in all of its detail.

The measurements and detail necessary to its erection can be taken by any carpenter or person familiar with such matters, and placed in position by the same. If desired, however, we can send a competent man to measure, charging for his time and expenses.

To obtain an approximate or actual estimate for wire work, a diagram of detail accompanying application will better enable us to prepare our estimate, which will always be at the lowest price compatible with the best work.



1½ and 2½ in. diamond, ½ in. Wire, ¼ in. round frame.

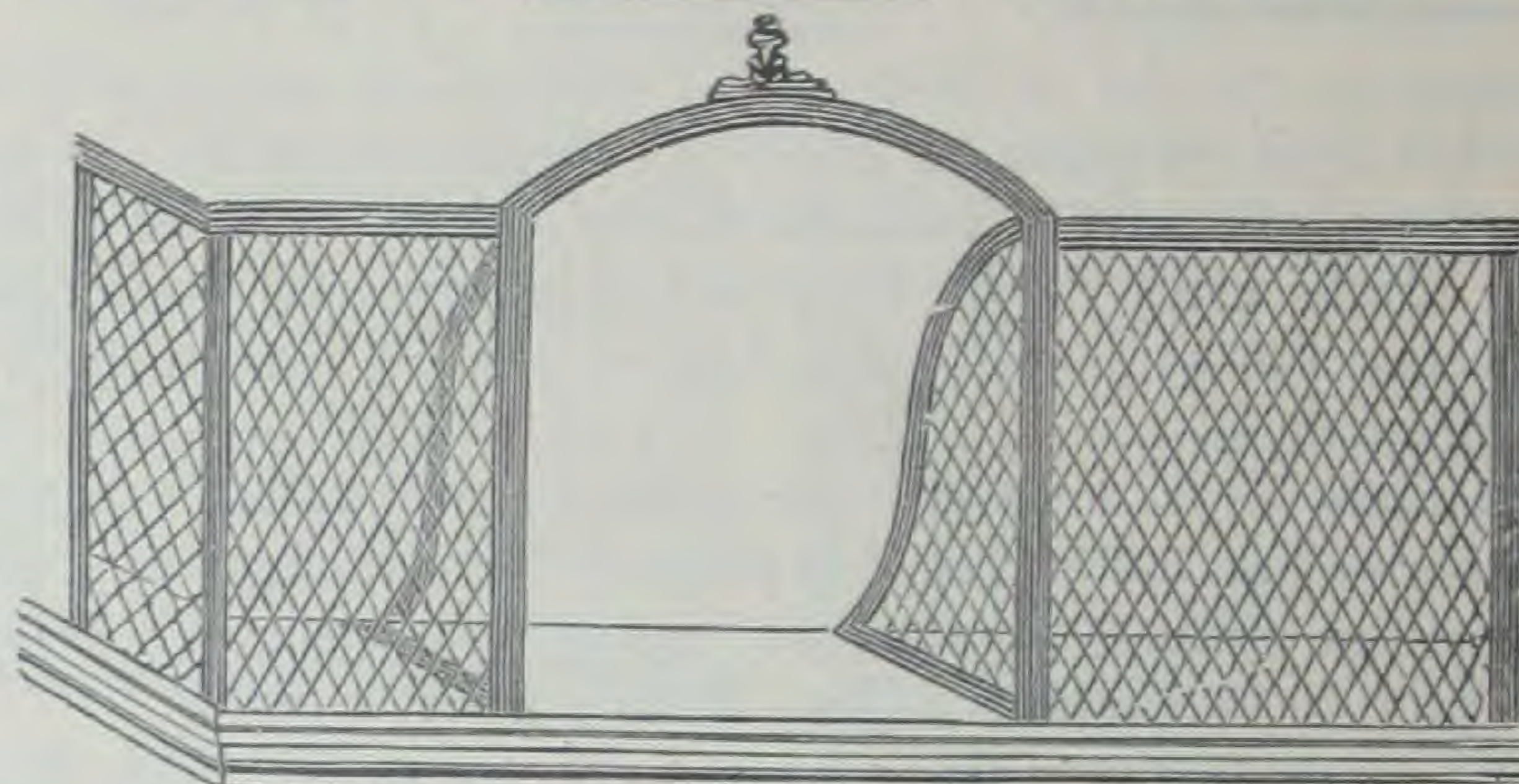
Prices No. 4 Pattern Round Iron Frame Counter Railing.

A cheap store or office Railing for many purposes.

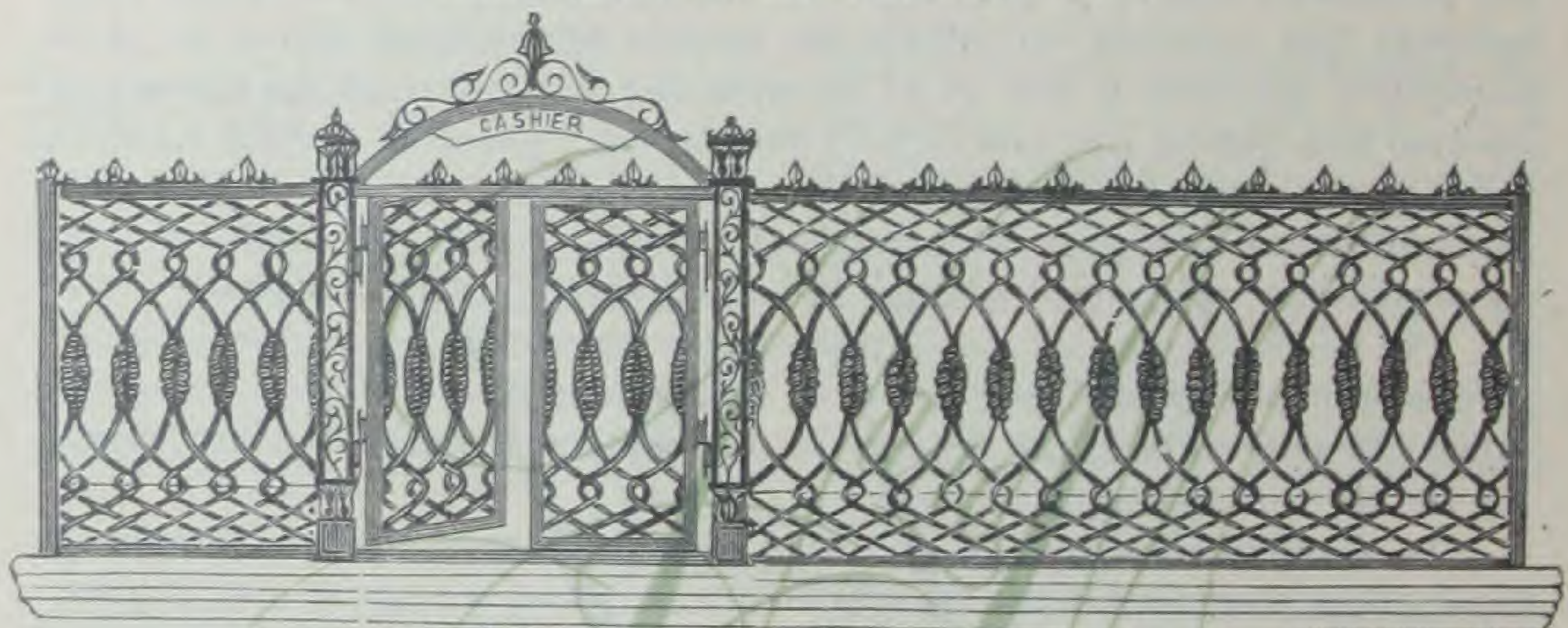
12 inches high.....	\$0.55	cents per running foot.
20 " " .....	.75	" " "
24 " " .....	.95	" " "
30 " "	1.15	" " "
36 " "	1.35	" " "
Extra charge for Pickets.....	.35	" " "
" " Rosettes .....	.30	" " "
" " Ogee ends and returns	\$1.00	each.
" " Cash Holes.....	1.50	"
" " Locks on doors.....	2.00	"
" " Doors	2.50	"

Discount.

WIRE OFFICE WORK.



Bank and Counter Railing, No. 4.



Bank and Counter Railing, No. 12.

Prices of Bank and Counter Railing.

(Doors, Posts, Cash Holes, Ogee Ends, Curves, etc., extra.)

Nos. 4, 40 and 41 Pattern, 24 in. high, $\frac{1}{8}$ Wire, Painted and Bronzed	\$1.75	per running foot.
Nos. 12, 14, 16, 42, 43 and 44, or other Fancy Patterns, 24 inch high, Painted and Bronzed	2.50	" "
Extra charge for Rosettes .....	.50	" "
" " Pickets, cast iron .....	.30	" "
" " " wrought iron	1.25	" "
" " Doors	from 5.00	to \$10.00 each.
" " Locks	2.00	" 5.00 "
" " Cash Hole	3 00	" "
" " Curve	2.00	" "
" " Posts	from 1.00	to 3.00 "
" " Ogee end or return	3.00	" "
" " Arch Top	1.50	" "
" " Sweep Frames	2.00	" "
" " Scrolls	from 5.00	to 20.00 "
" " Silver Name Plate	5.00	" 25.00 "

Discount,

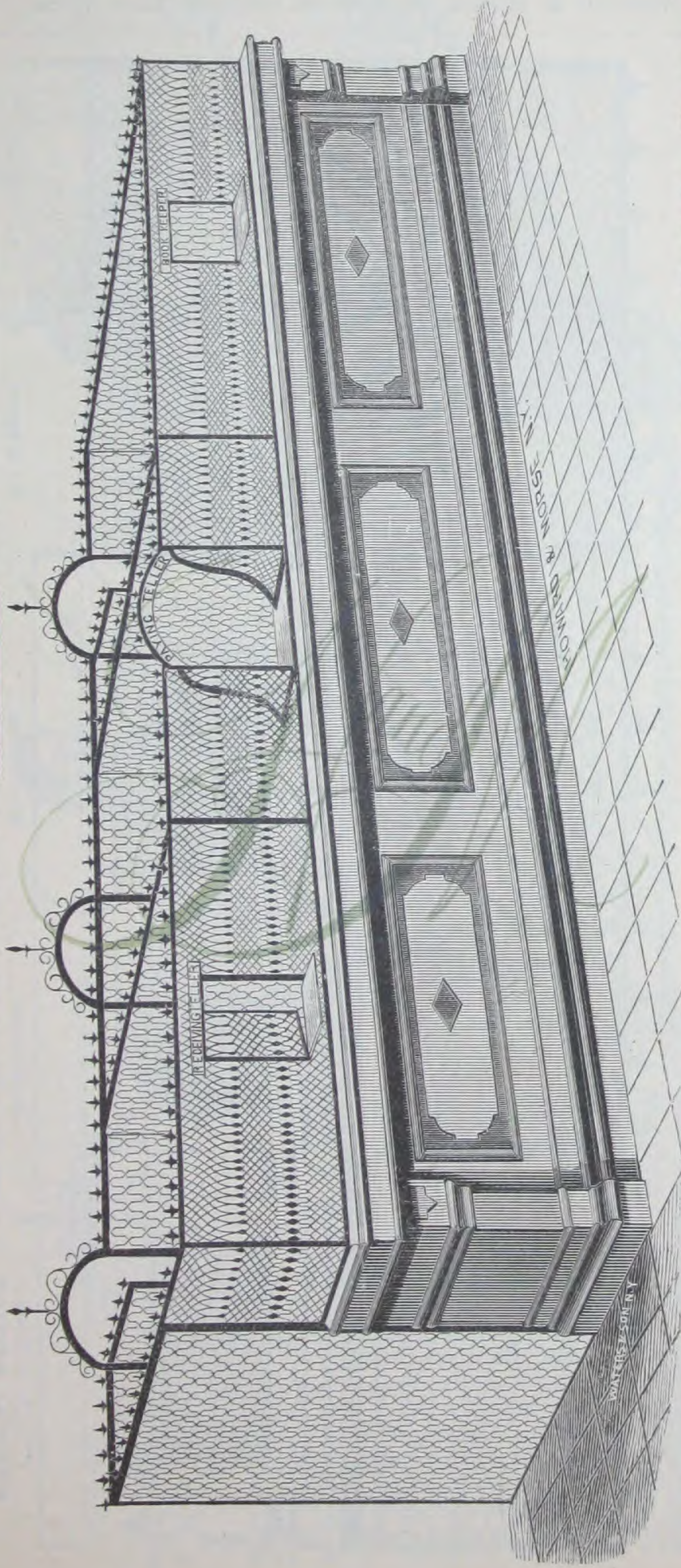
Extra charge for small pieces, or irregular shapes.

When required, a competent man will be sent to take dimensions and give estimate of cost. Work put up when completed at the lowest rates.

This style of railing has long been in general use throughout the entire country by Banking Institutions, Insurance Companies, Brokers and Merchants, as a sure protection against those sudden attacks from robbers, to which all tellers and cashiers are constantly exposed while in the discharge of their duties. It admits a free and unobstructed circulation of air and light, and gives a beautiful appearance to the Banking Room or Office that cannot be had in the use of any other railing.

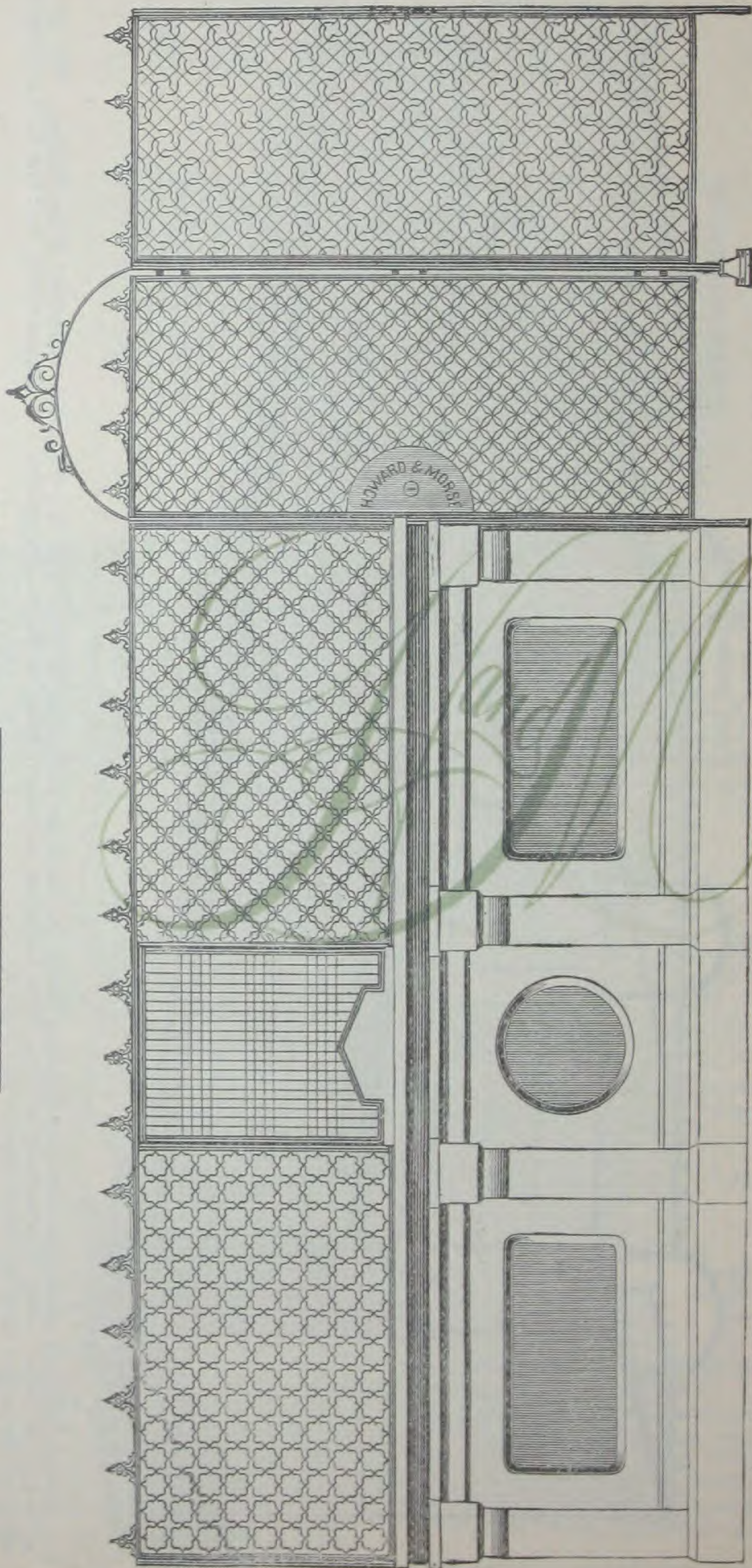
The style and design of the work may be varied to an unlimited degree, so as to suit any taste or position.

INTERIOR OF A BANKING ROOM.



Above we show an interior view of a Banking Room, in which the Tellers are enclosed with No. 9 and No. 14 Pattern Wire Railing. The great advantage in Tellers being thus securely enclosed from intrusion of fellow clerks or others is apparent. It is appreciated, and has been adopted by many of the largest Banking Institutions in the country.

BANK COUNTER RAILING.



No. 40 Pattern.

No. 41 Pattern.

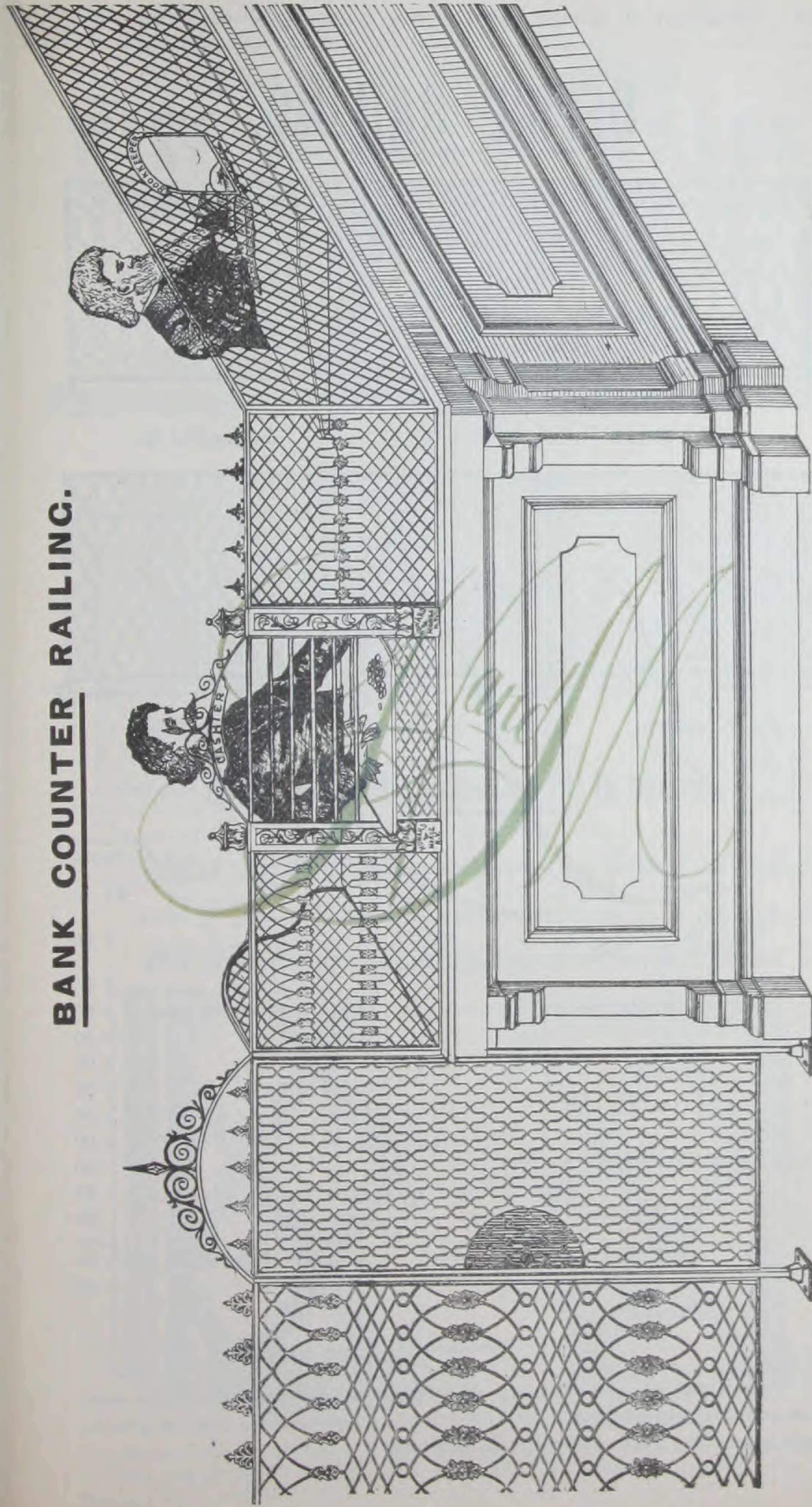
No. 42 Pattern.

No. 43 Pattern.

No. 44 Pattern.

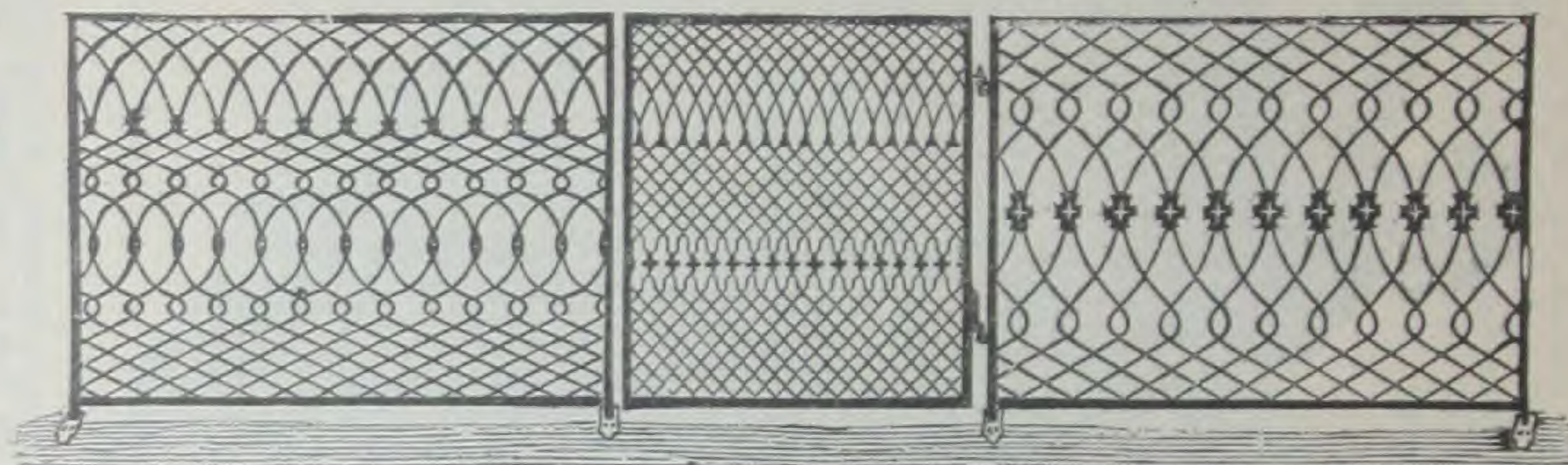
SPECIAL NOTICE.—In all cases, when ordering or asking for estimates, carefully mention all detail necessary, as, for instance, which measurement is the height or width; whether cash holes are wanted; if so, what size and shape, and at what position in the work; whether they are to be supplied with doors, with spring or lock catch, and which way they are to swing; if glass shelves or Teller's or Cashier's silver name-plates are needed. Also note whether there are any jogs to fit surrounding wood-work, radius of curves, if any, etc. Careful observation and mention of these particulars will be to our mutual interest in expediting correspondence, estimates and execution of orders.

BANK COUNTER RAILING.



The above cut represents sections of Nos. 4, 13 and 14 Pattern Counter Railings, 24 inches high, with gate of No. 9 Pattern to secure entrance to enclosure. At the other side is shown a panel of No. 16 Pattern. We diversify these patterns to better enable our customers to see a number in position. Any of the designs shown in this book are as applicable to the purpose. Prices as printed on page 72. We would also invite attention to this work, made in heights of 6 feet or over, designed to secure privacy to Tellers, Officers, or approach to Vaults or Security Rooms. Prices depending upon patterns and weight of material.

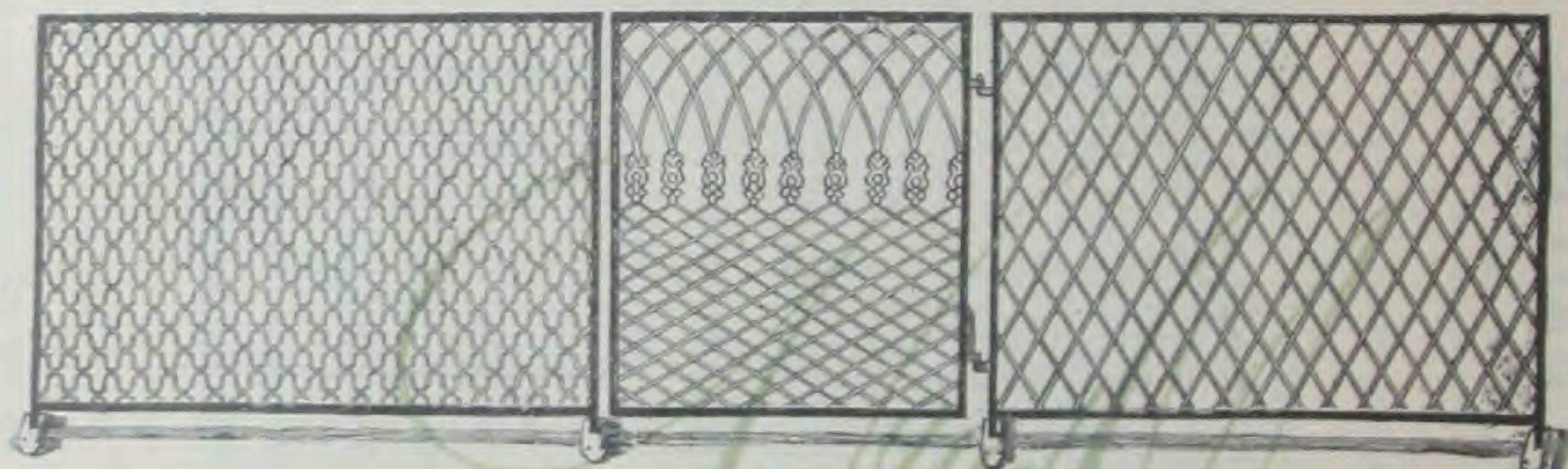
OFFICE RAILING.



Railing No. 16.

Railing No. 14.

Railing No. 12.



No. 9 Pattern.

No. 11 Pattern.

No. 4 Pattern.

Prices of Office Railing, 36 Inches High.

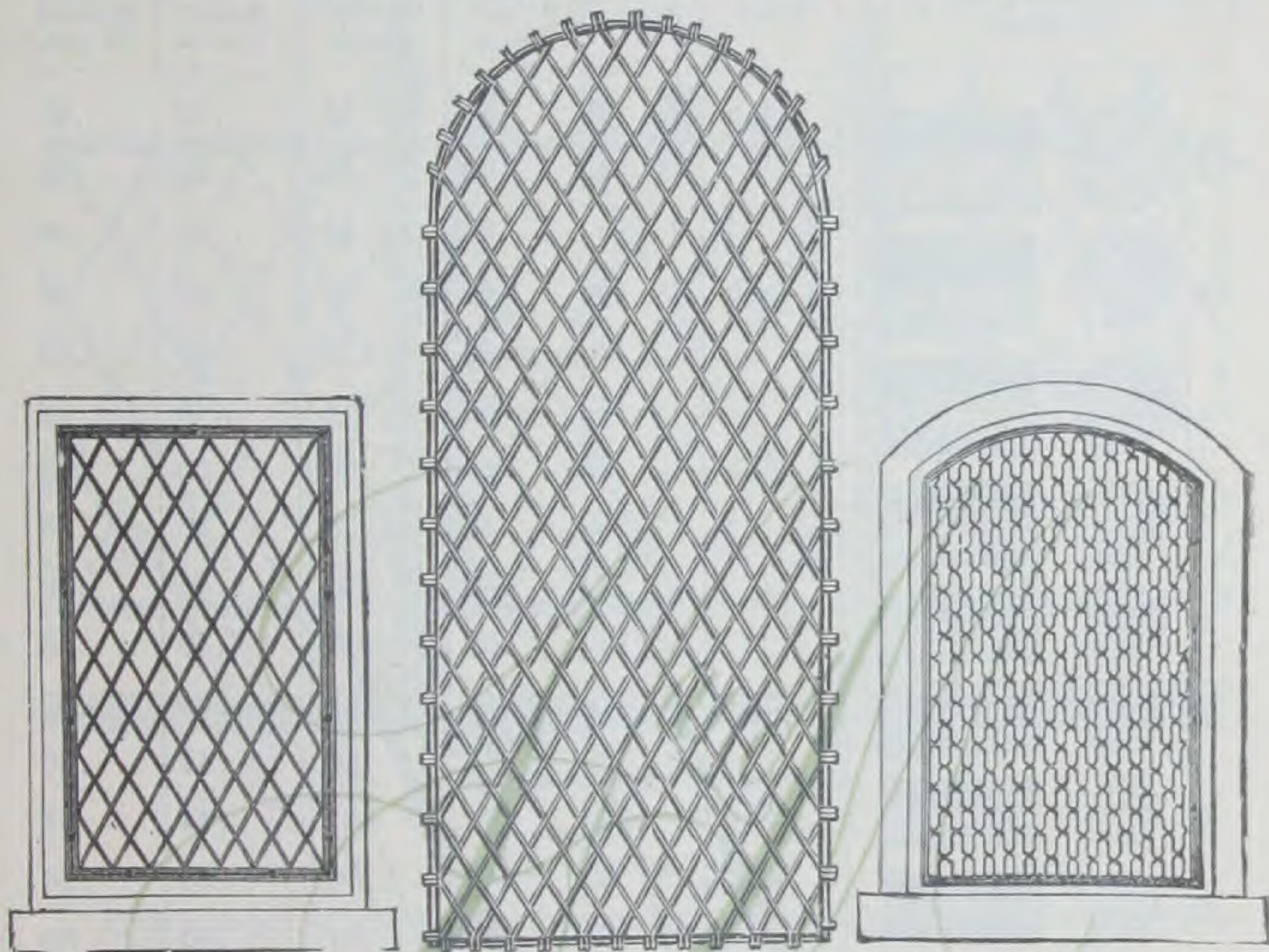
										PER RUNNING FOOT.
No. 4 or No. 9, as per cut, Painted and Bronzed, $\frac{1}{8}$ in. [No. 8] Wire,	2	inch	mesh							\$1 75
No. 4 or No. 9, as per cut, Painted and Bronzed, $\frac{1}{4}$ in. [No. 3] Wire,	3	inch	mesh							2 00
No. 4 or No. 9, as per cut, Painted and Bronzed, $\frac{5}{16}$ in. [No. 0] Wire,	4	inch	mesh							2 25
No. 11, as per cut, Painted and Bronzed, $\frac{1}{4}$ in. [No. 3] Wire, 4 inch mesh,										2 50
" 12 " " " " " " " " " " " "	$\frac{1}{4}$	"	[No. 3]	"	4	"	"	"	"	2 50
" 12 " " " " " " " " " " " "	$\frac{5}{16}$	"	[No. 0]	"	4	"	"	"	"	3 00
" 14 " " " " " " " " " " " "	$\frac{1}{8}$	"	[No. 10]	"	2	"	"	"	"	3 00
" 15 " " " " " " " " " " " "	$\frac{1}{4}$	"	[No. 3]	"	4	"	"	"	"	3 00
" 16 " " " " " " " " " " " "	$\frac{3}{16}$	"	[No. 6]	"	3	"	"	"	"	3 00
Extra charge for Pickets, cast iron										30
" " " " wrought iron										1 25
" " Rosettes										30
" " Gates										EACH.
" " Posts										2 00

Discount,

These patterns made of heavier wire or iron with a larger mesh and some variation of finish, are largely used for exterior purposes, wire window guards, lawn fences, etc. See succeeding illustrations.

DIAMOND PATTERN WIRE WINDOW GUARDS,

For Residences, Churches, Warehouses, Public Buildings, Asylums, Etc.

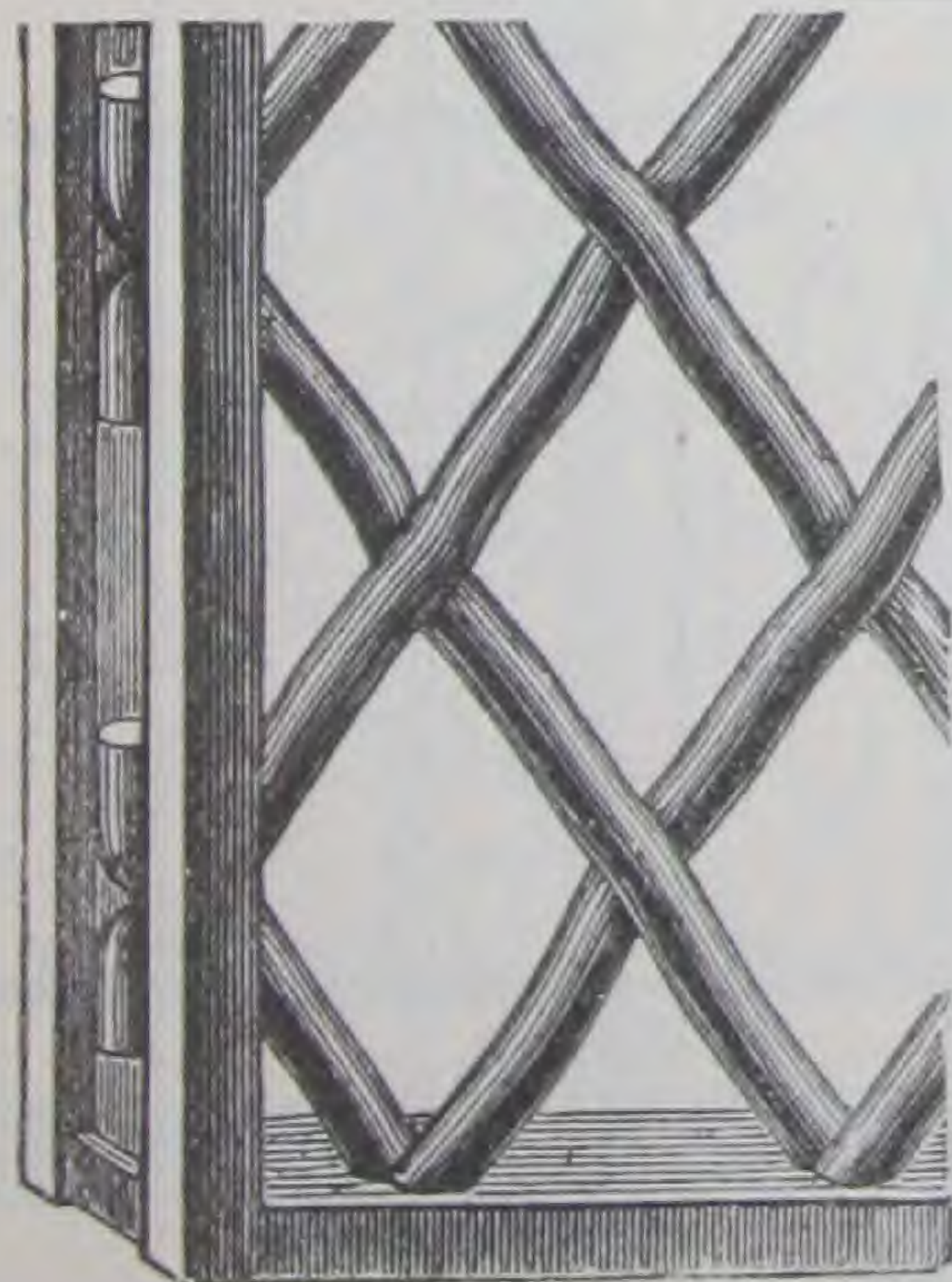


Window Guard No. 4,
Grooved Frame.

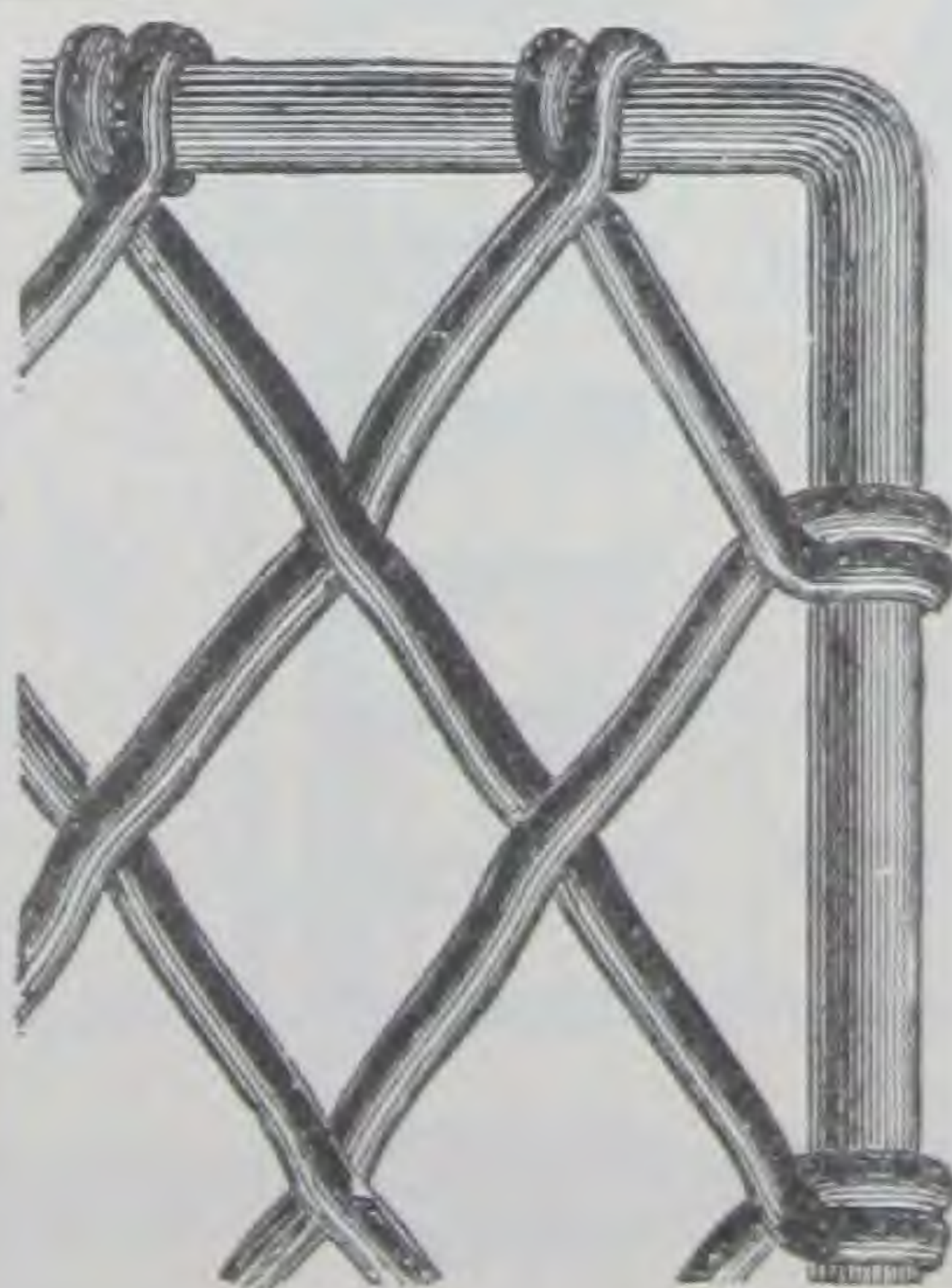
Window Guard with
Round Top, No. 4 or
Diamond Pattern,
Round Frame.

Window Guard No. 9,
Grooved Frame.

METHODS OF FRAMING WIRE WORK.



Grooved Frame.





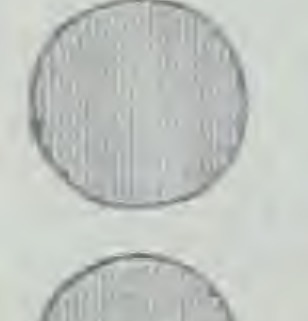






Round Frame.

By means of Grooved and Round Iron, made of a weight or size suitable to meet requirements of each case, as regards dimensions of guards, size of mesh, diameter of wire, etc.

For prices see next page.

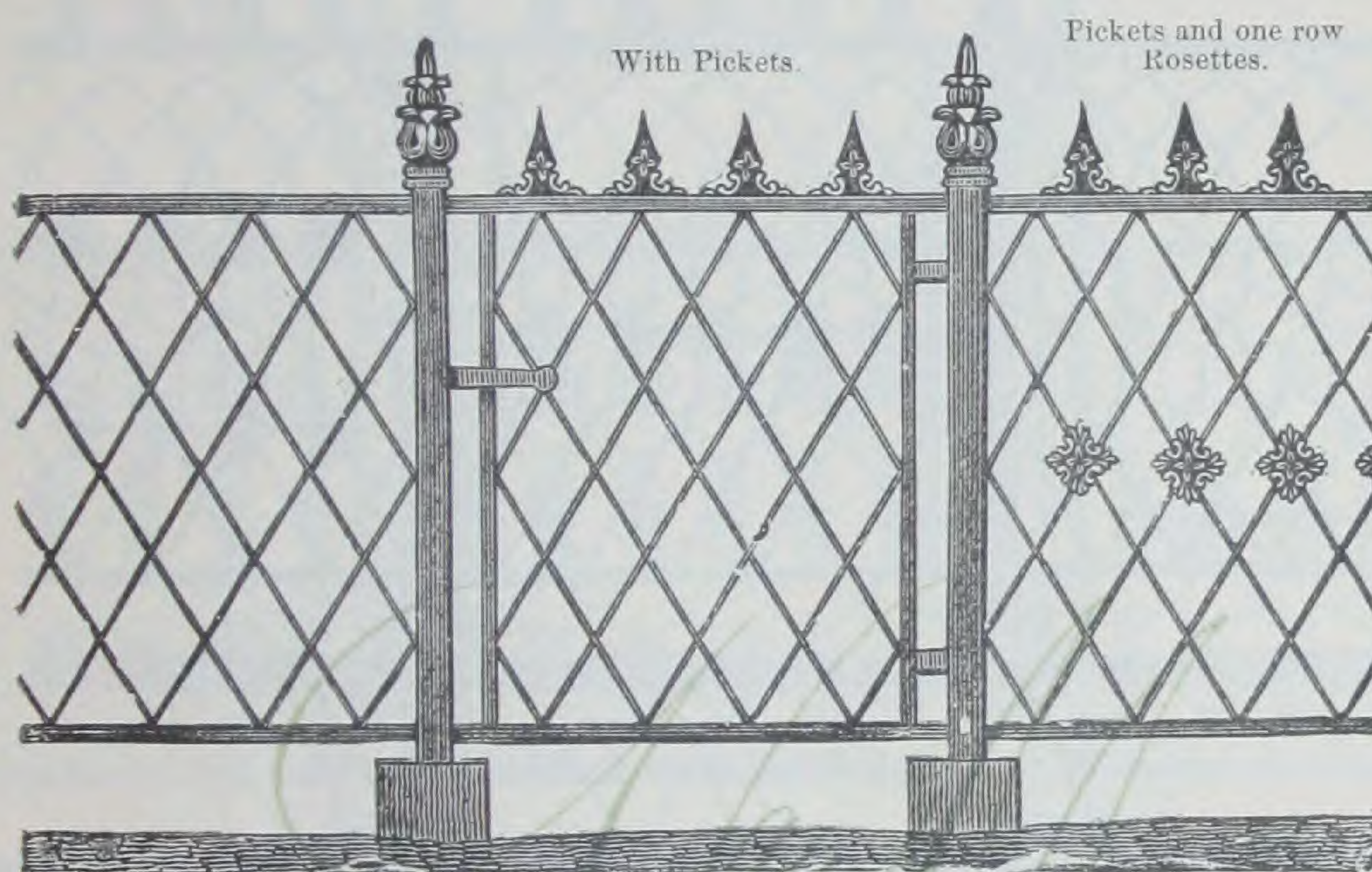
Price per Square Foot of No. 4 Pattern Diamond Mesh Wire Window Guards and High Railings.

No.	Table showing full size of Wire drawn to gauge.	Size of Mesh.	Size of Wire.	Painted.		Galvanized.	
				Round Frame.	Grooved Frame.	Round Frame.	Grooved Frame.
000		1 inch	No. 12	.45	.58	.55	.68
			" 14	.40	.53	.50	.63
			" 16	.35	.48	.45	.58
00		1 1/4 inch	" 10	.45	.58	.55	.68
			" 12	.40	.53	.50	.63
			" 14	.35	.48	.45	.58
0		1 1/2 inch	" 9	.45	.58	.55	.68
			" 10	.40	.53	.50	.63
			" 11	.35	.48	.45	.58
1		1 3/4 inch	" 8	.42	.55	.52	.65
			" 9	.37	.50	.47	.60
			" 10	.34	.47	.44	.57
2		2 inch	" 6	.45	.58	.55	.70
			" 8	.40	.53	.50	.65
			" 9	.35	.48	.45	.60
3		2 1/2 inch	" 4		.55		.75
			" 5		.50		.70
			" 6	.37	.45	.50	.65
4		3 inch	" 3		.55		.75
			" 4		.50		.70
			" 6	.34	.45	.50	.65
5		4 inch	" 0		.60		.90
			" 3		.50		.75
			" 4		.45		.65
6		4 inch	" 6	.30	.40	.42	.50
			" 8	.25	.32	.32	.40
			" 8				

Discount,

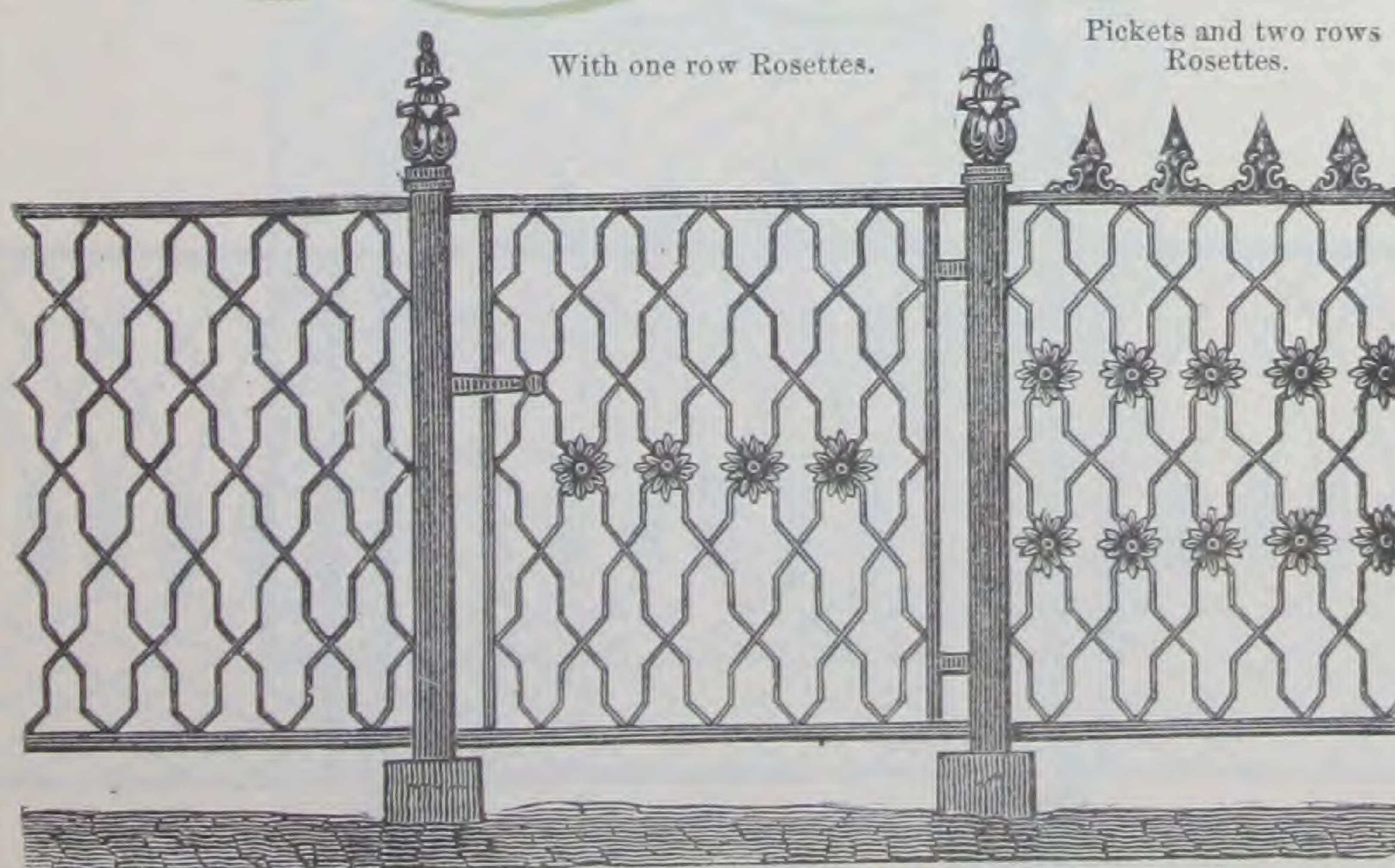
Curved or irregular shapes, and pieces averaging less than 9 square feet
will be charged for extra.

WIRE FENCE, GUARDS OR RAILING

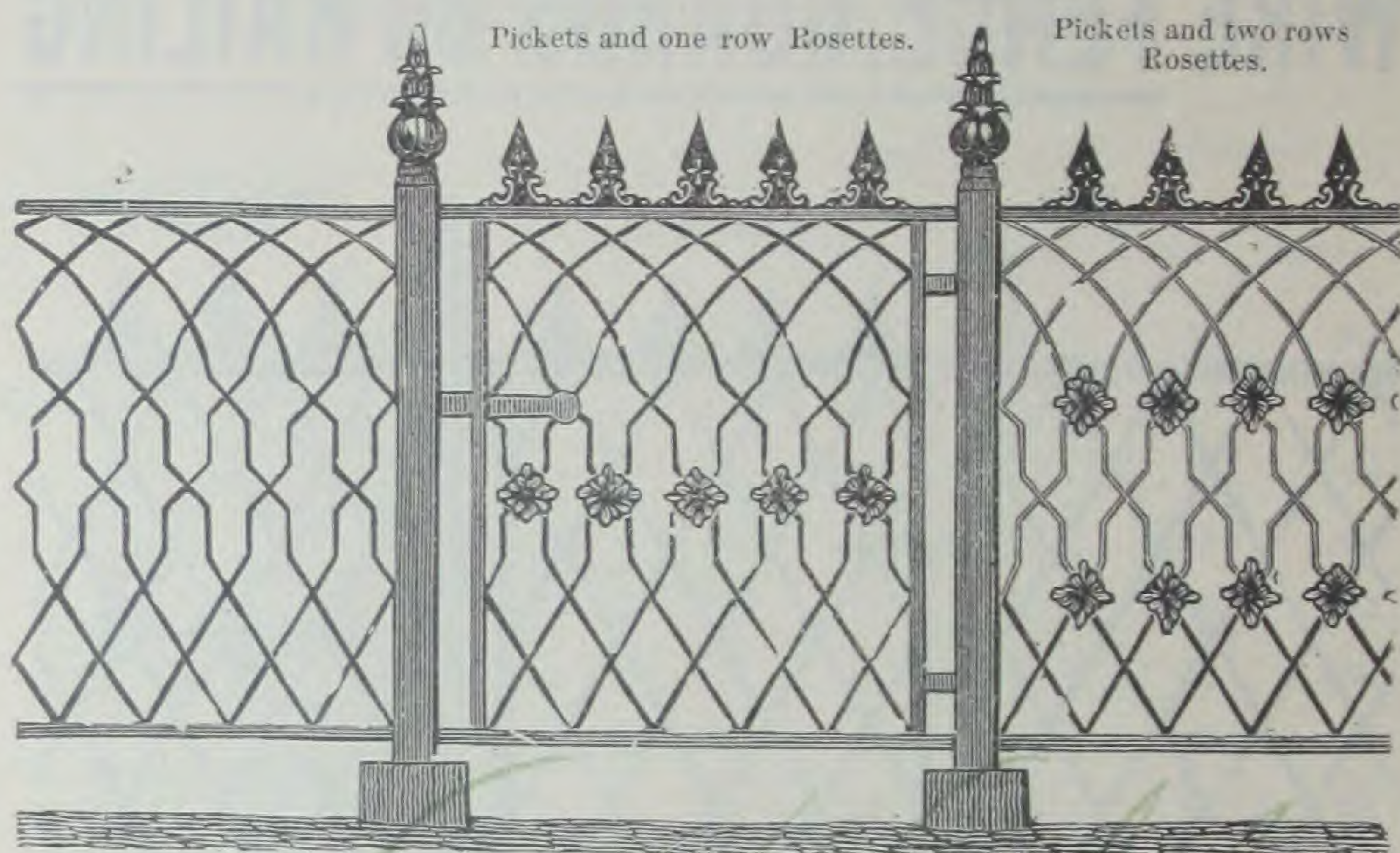


Wire Fence, Guards or Railing, No. 4.

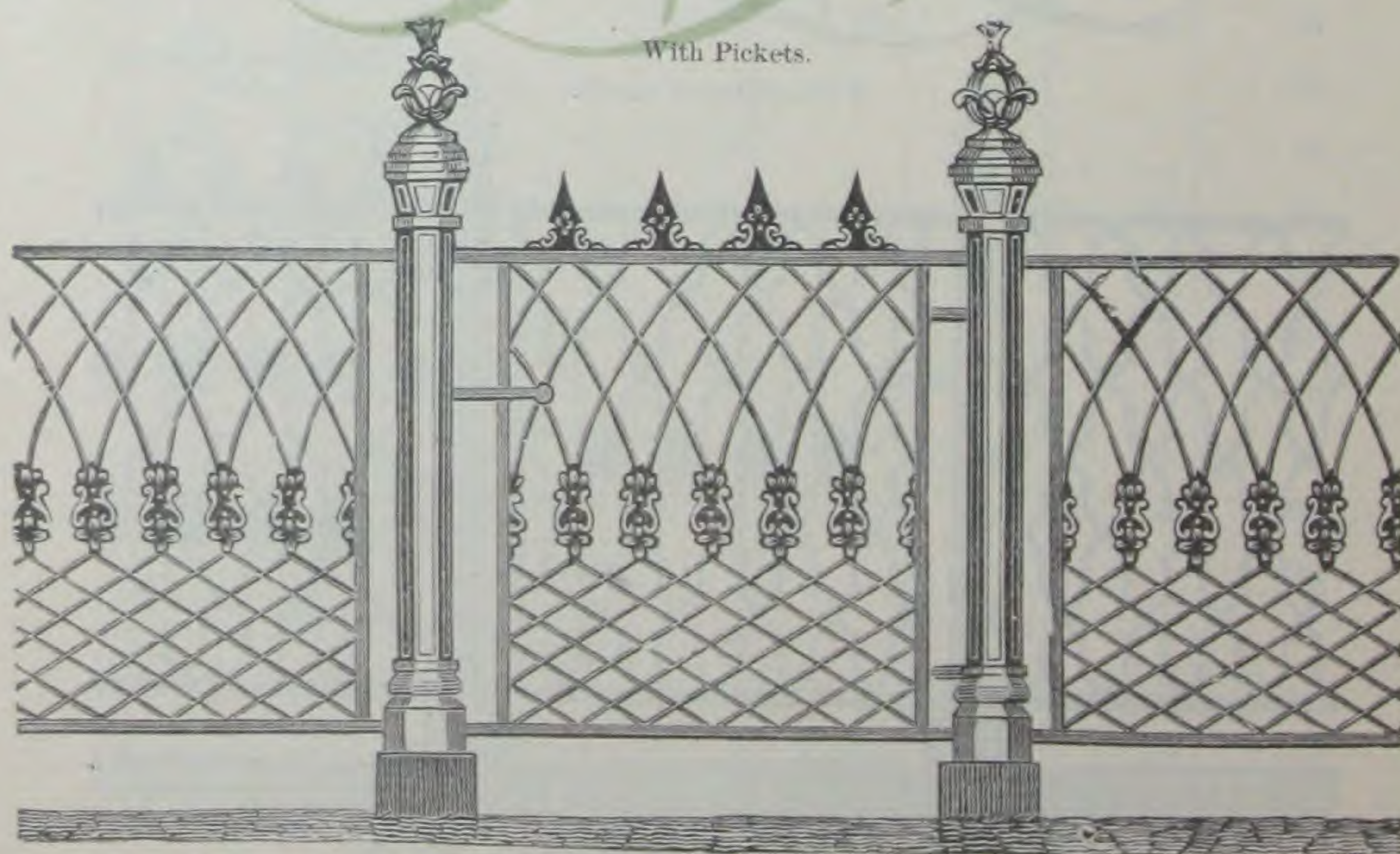
Either these or the succeeding patterns, with variations of finish, are applicable to Office or Window Guard purposes.



Wire Fence, Guards or Railing, No. 9.



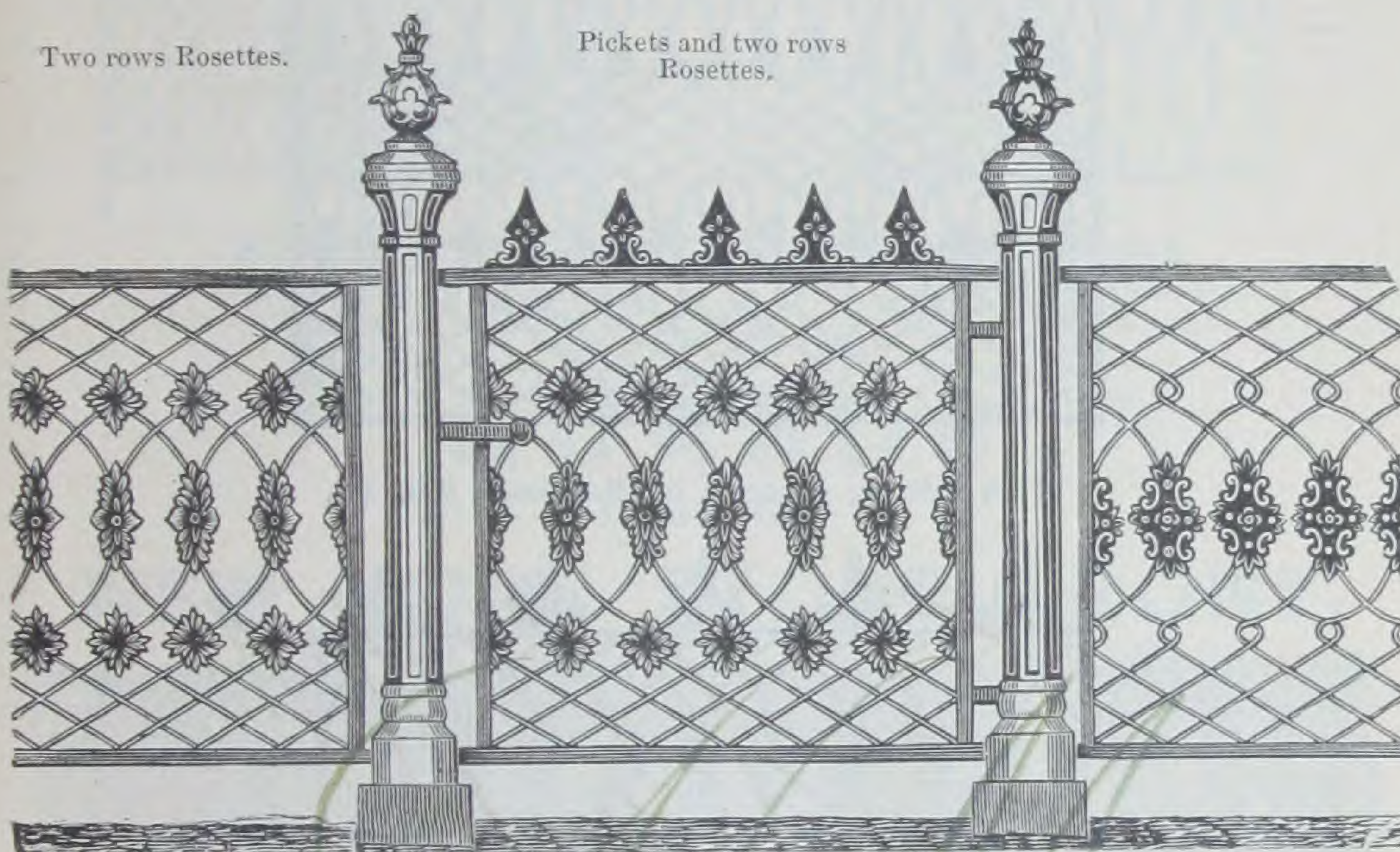
Wire Fence, Guards or Railing, No. 10.



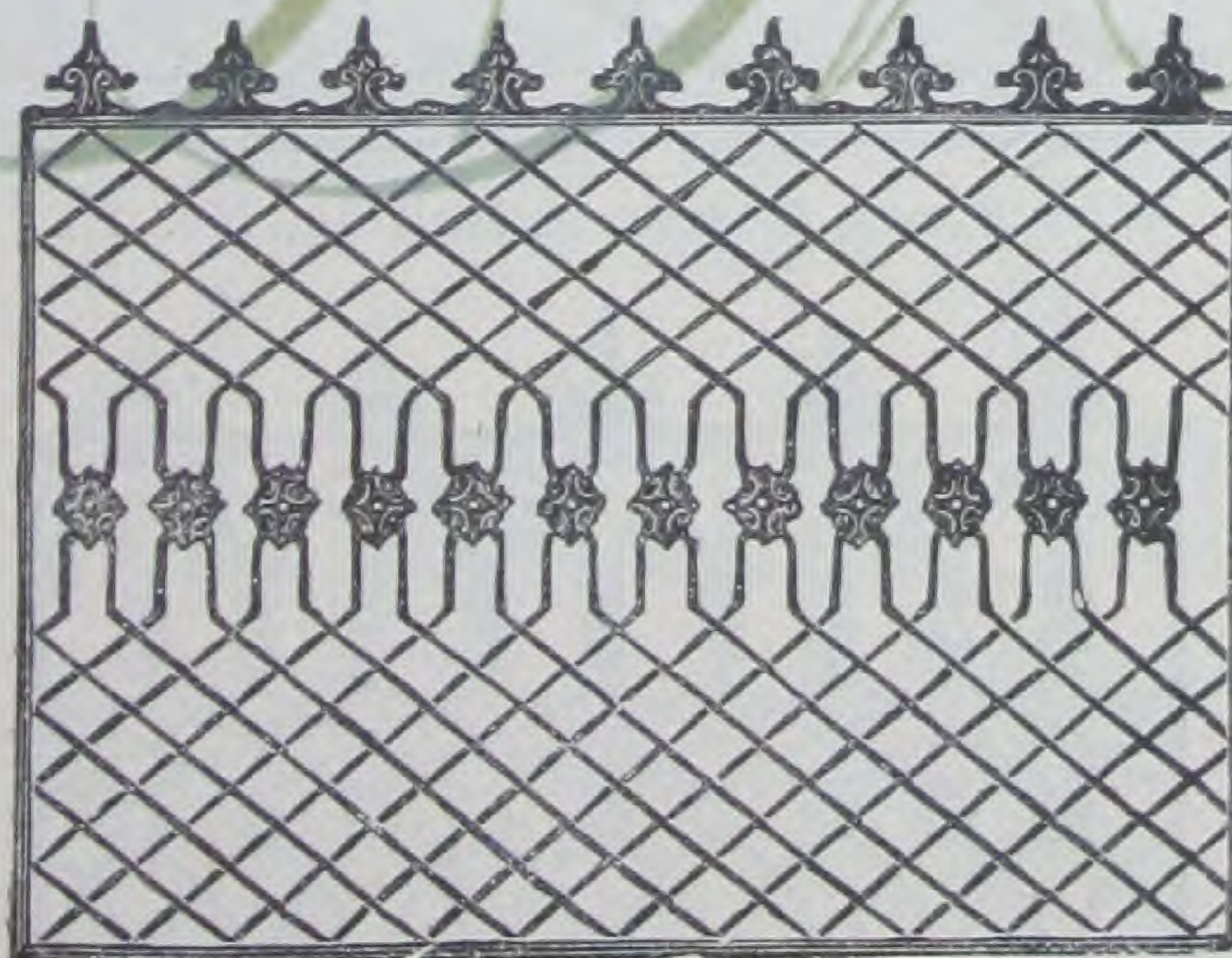
Wire Fence, Guards or Railing, No. 11.

Two rows Rosettes.

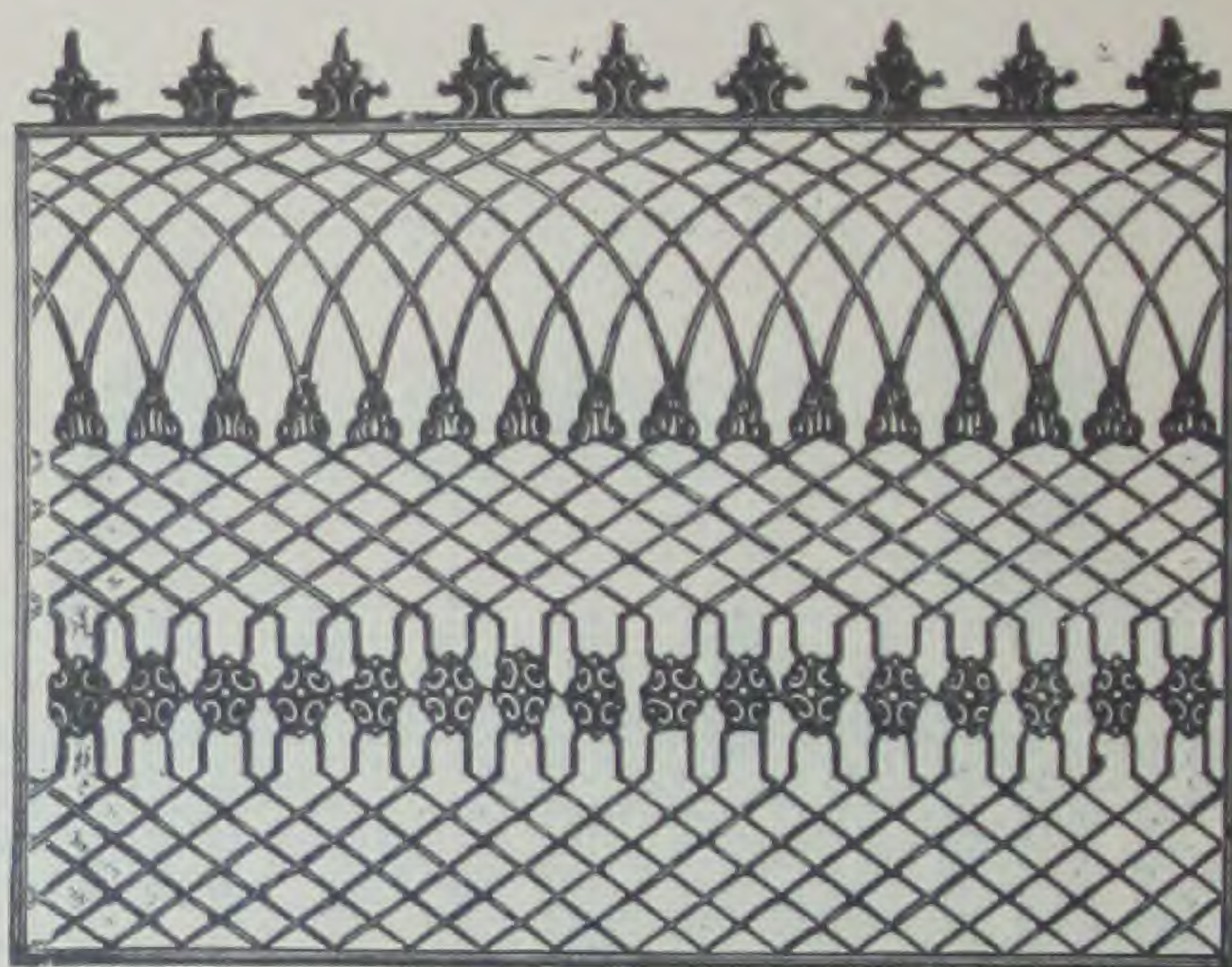
Pickets and two rows
Rosettes.



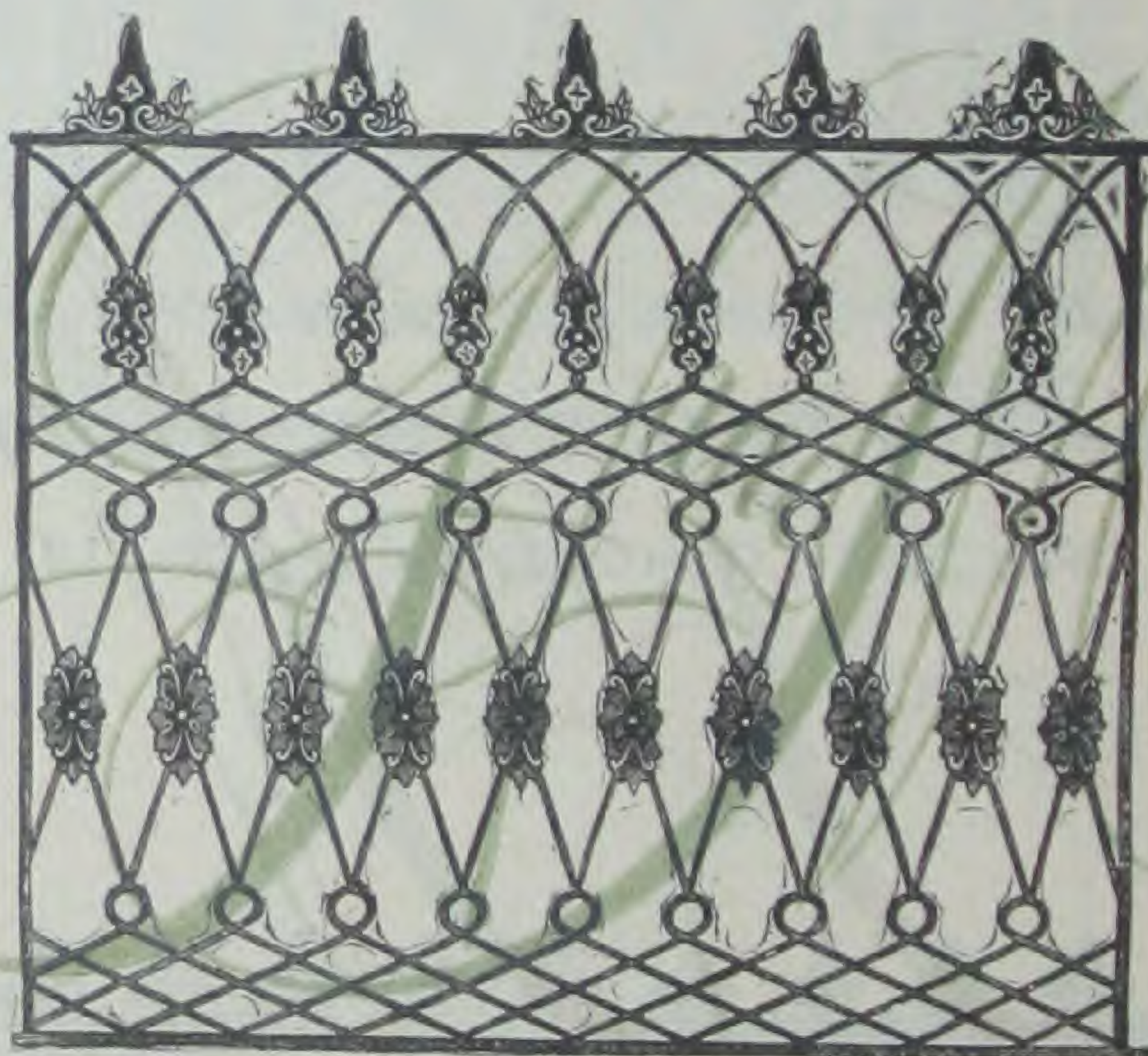
Wire Fence, Guards or Railing, No. 12.



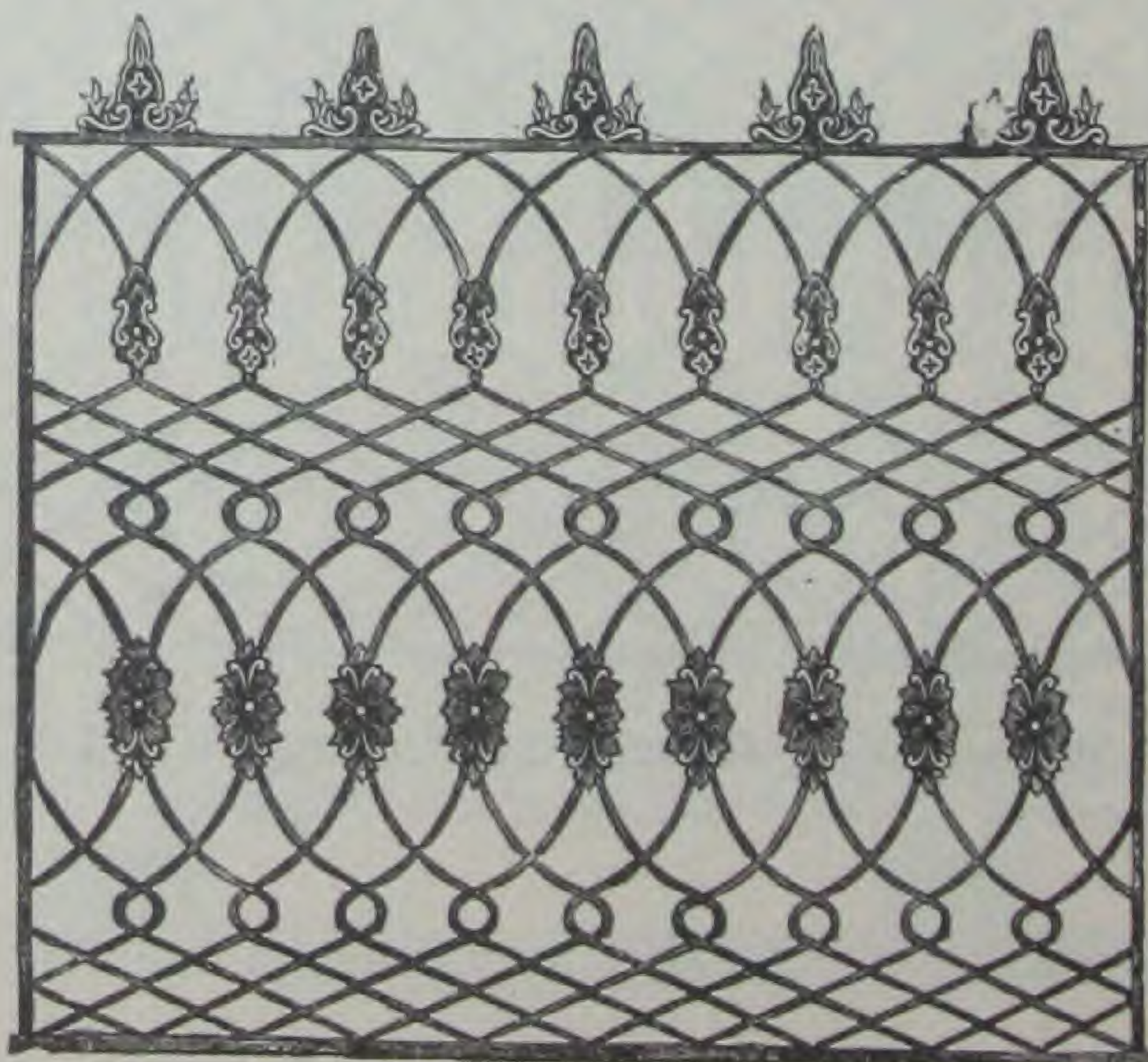
Wire Fence, Guards or Railing, No. 13.



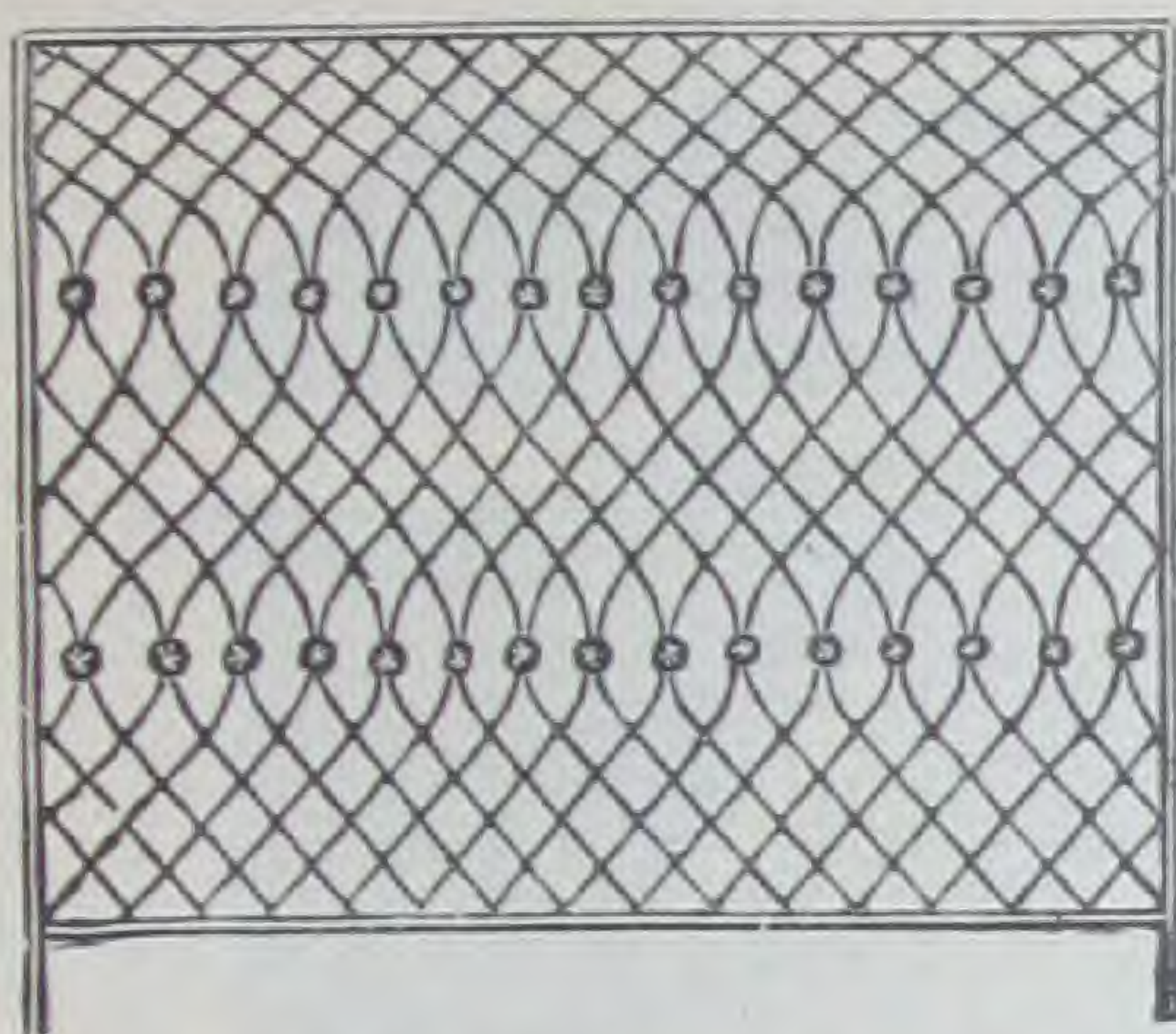
Wire Fence, Guards or Railing, No. 14.



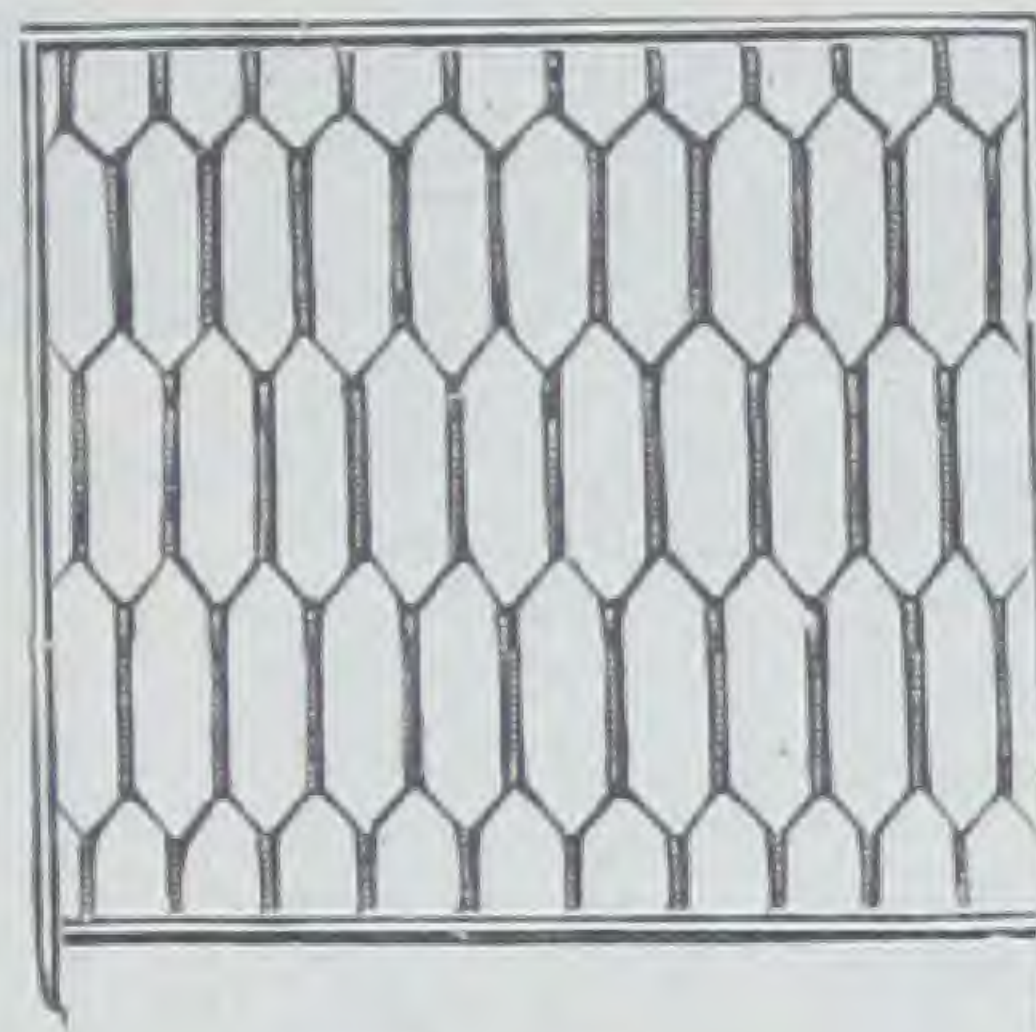
Wire Fence, Guards or Railing, No. 15.



Wire Fence, Guards or Railing, No. 16.

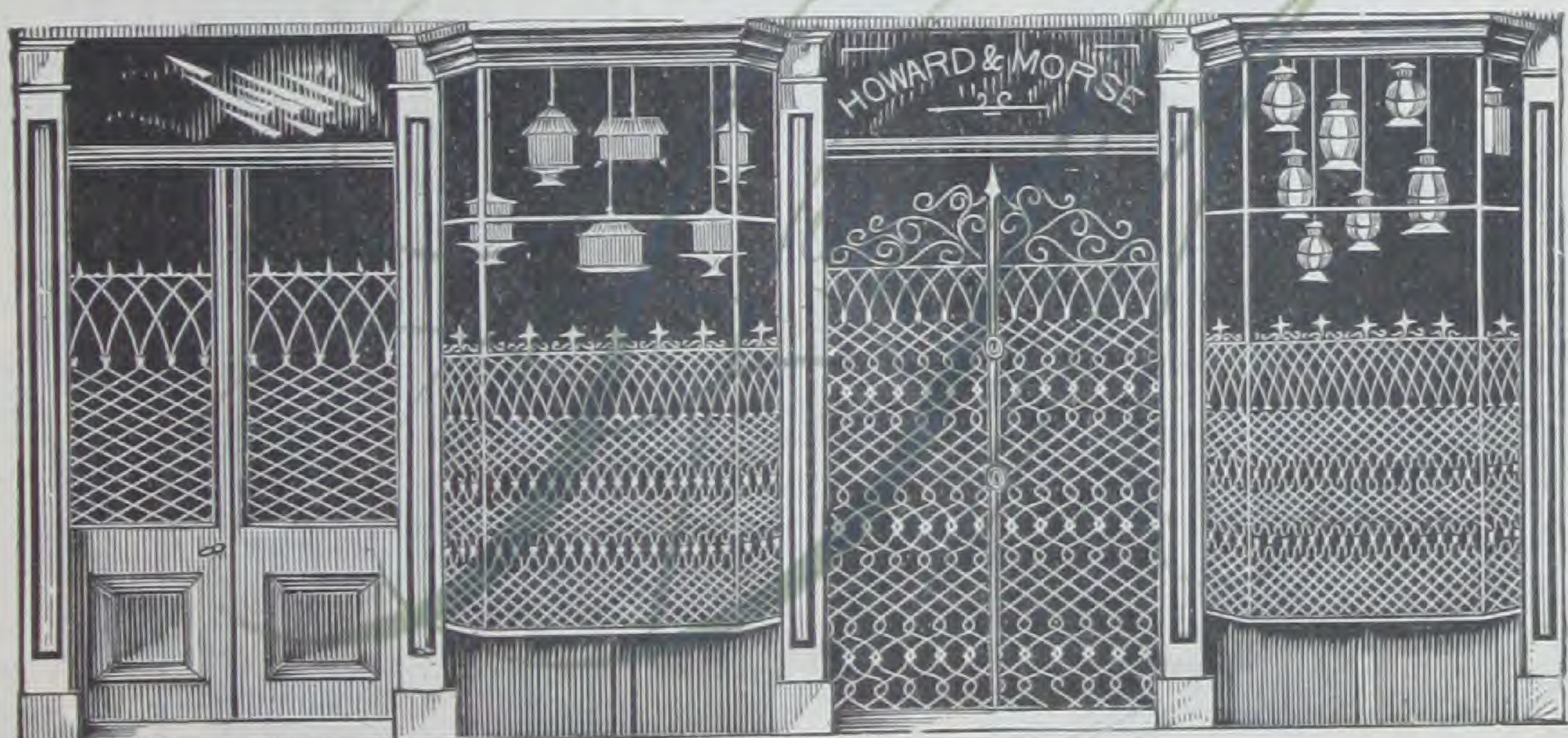


Wire Fence,
Guards or Railing,
No. 1.



Wire Fence,
Guards or Railing,
No. 3.

GUARDS UPON OUR NEW YORK STORE FRONT.



No. 11 Pattern Wire Work on the Side Doors.
" 16 " " " Centre "
" 14 " " " Windows.

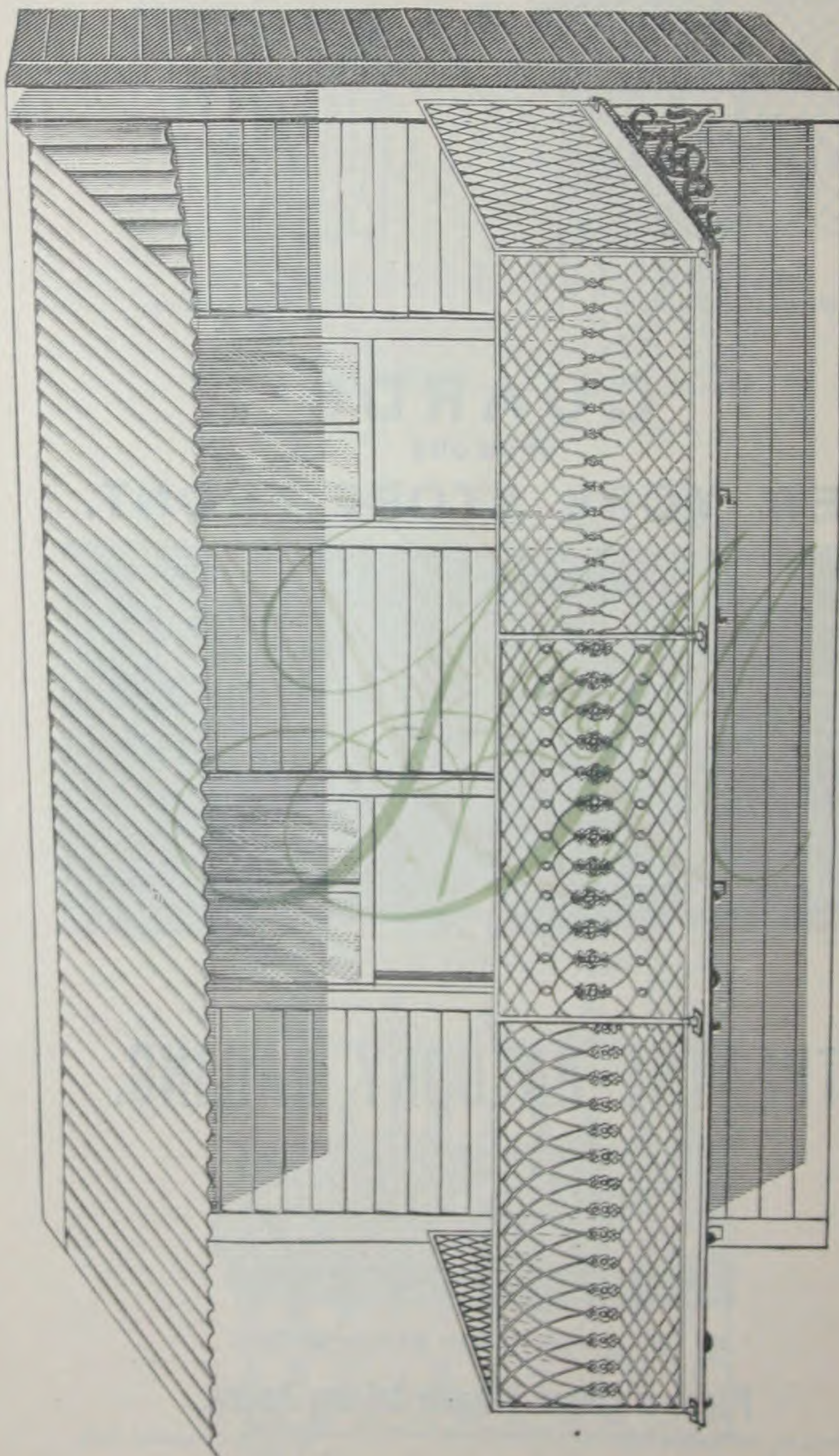
THEATRE BALCONY RAILING.



No. 17. Curved Theatre Balcony Railing.

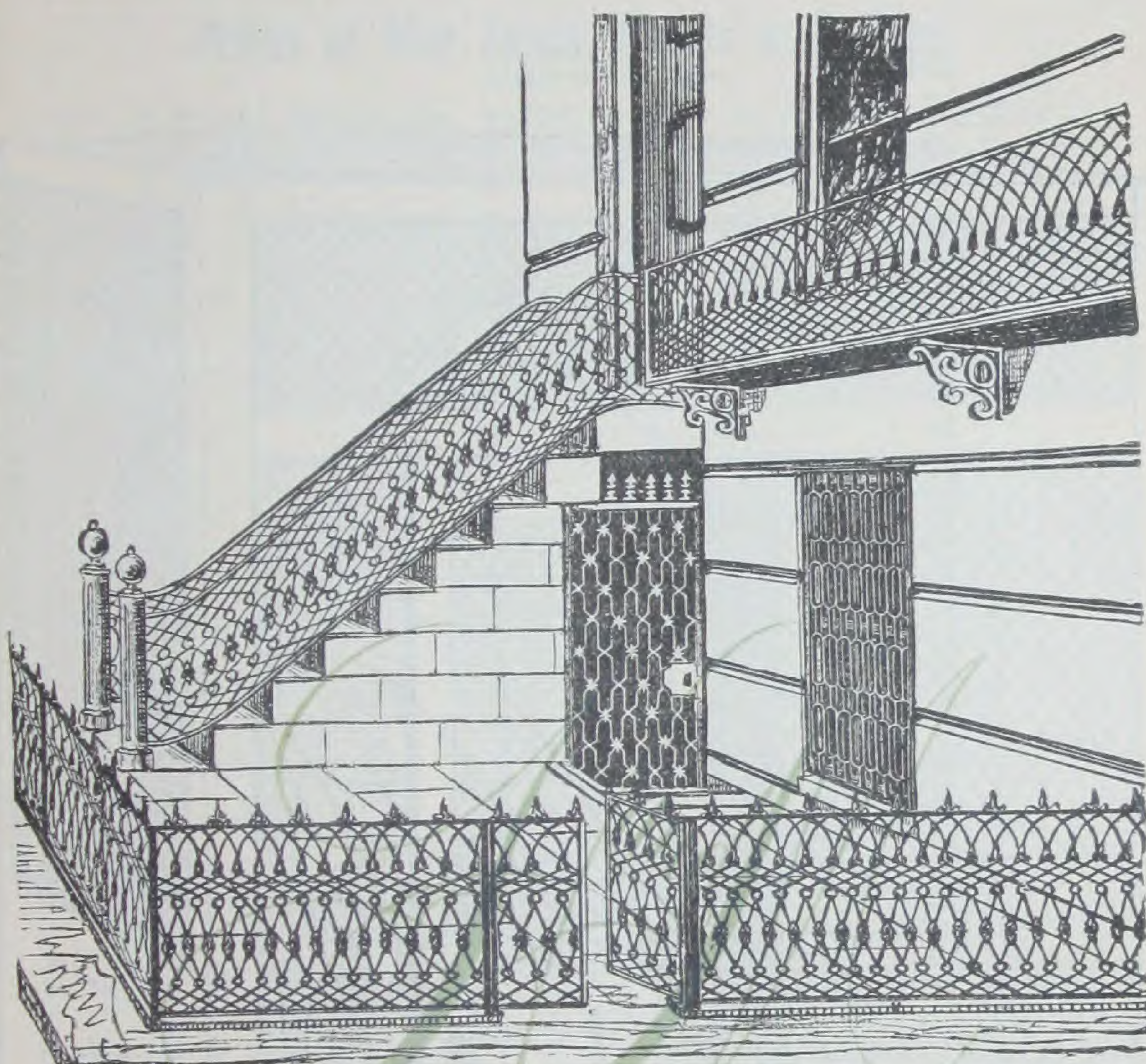
Prices of Curved Theatre Balcony Railing.

22 Pattern, 22 inches high.....	\$3 00 per running foot.
Wrought Iron Posts for same.....	1 75 each.

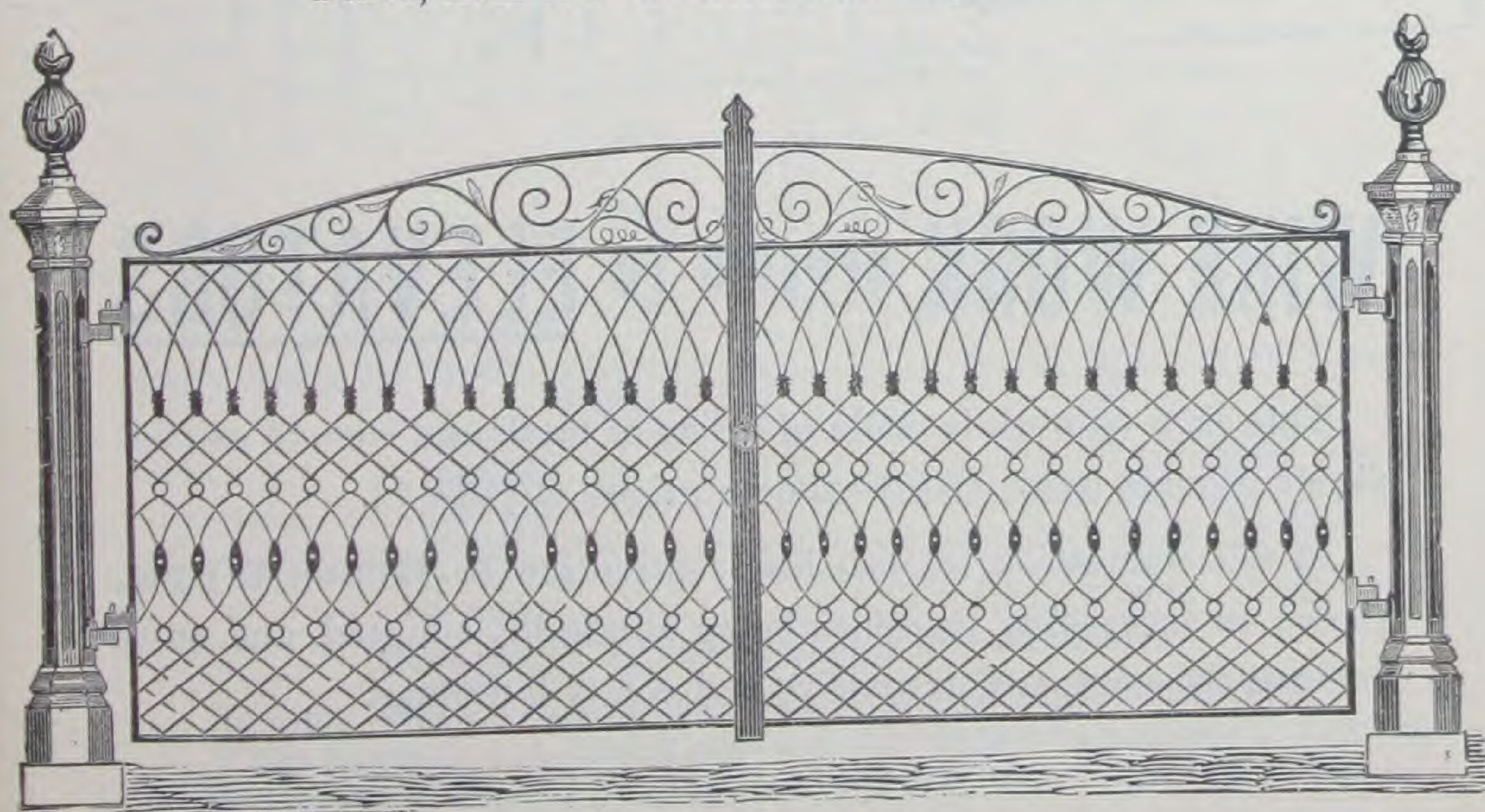


BALCONY AND LAWN RAILING.

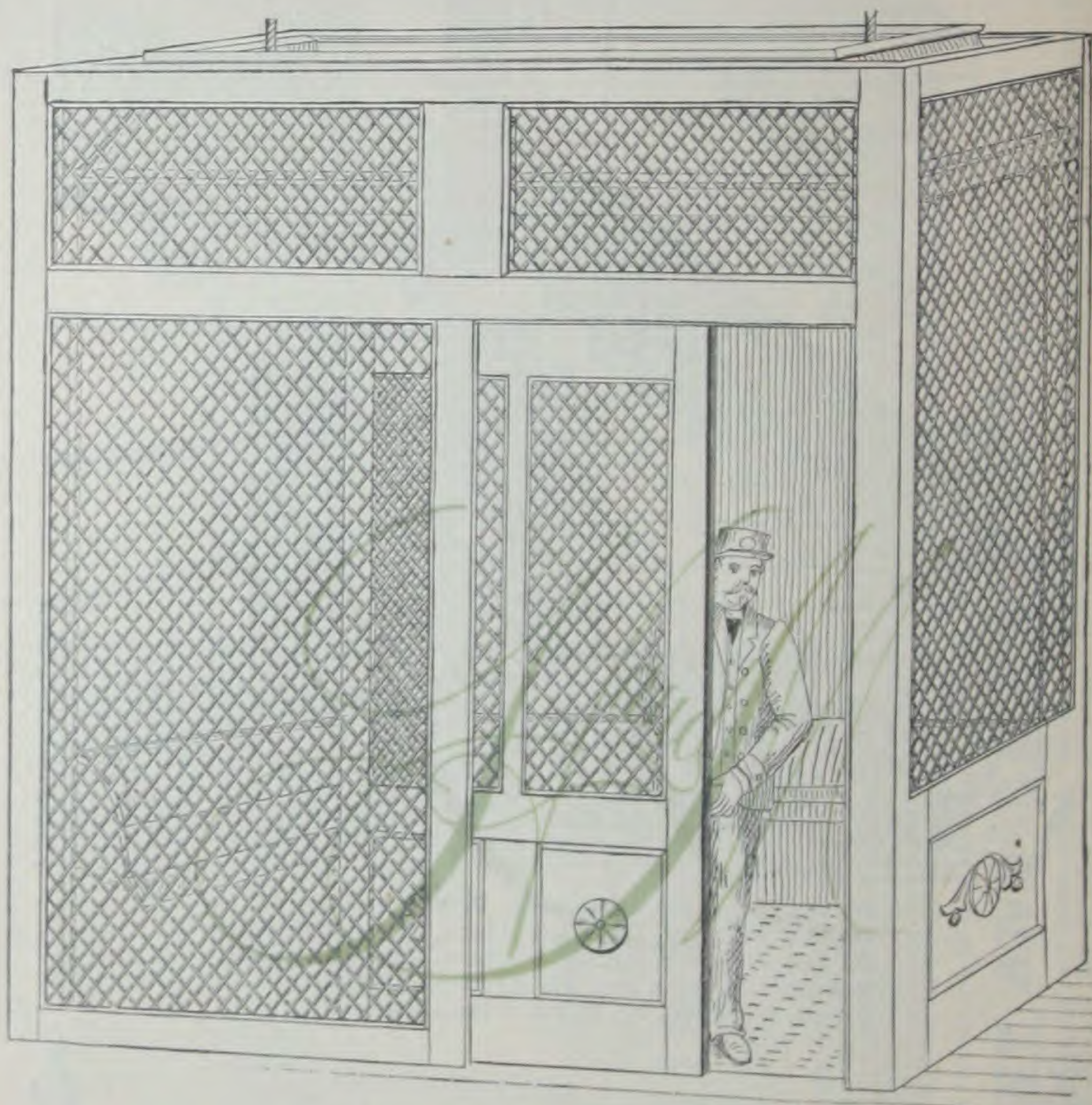
The above engraving represents stout wire work in its application as a balcony railing. For the convenience of exhibition, the several panels, it will be observed, are of different patterns, either of which is excellently adapted for balcony purposes, or with some variation of finish, for lawn fencing. In asking for estimates, state every item of detail, namely: the height of railing required, the width of face, the depth of returns, the pattern, the size of wire or iron, and whether cast iron brackets to support the wooden flooring are required.



On the Door, No. 9 Pattern, Wire Guard.
 On the Balcony, No. 11 Pattern, Wire Railing.
 On the Window, No. 53 Pattern, Flat Iron Guard.
 Balustrade, from No. 12 Pattern Railing.
 Fence, from No. 15 Pattern Railing.



No. 16 Pattern, Drive-Way Gates.



WIRE WORK APPLIED TO ELEVATORS

This class of work is made of a size of mesh and wire to suit individual purchasers. Approximate prices on page 72.

In this connection we also invite attention to **Brass Work**, shown on succeeding pages, as being admirably adapted, and quite extensively employed in massive and costly buildings.

Prices of Wire Fence, Guards or Railings.

No.	1	Pattern, Painted, No.	8	Wire, [$\frac{1}{8}$ in.]	3	in. Mesh, \$0 65 per sq. ft.
"	1	"	"	6	"	[$\frac{3}{16}$ in.] 3 in. " 80
"	3	"	"	10	"	[$\frac{1}{8}$ in.] $1\frac{1}{2}$ in. " 60
"	4	"	"	10	"	[$\frac{1}{8}$ in.] 1 in. " 65
"	4	"	"	10	"	[$\frac{1}{8}$ in.] $1\frac{1}{4}$ in. " 58
"	4	"	"	10	"	[$\frac{1}{8}$ in.] $1\frac{1}{2}$ in. " 53
"	4	"	"	8	"	[$\frac{1}{8}$ in.] 2 in. " 53
"	4	"	"	6	"	[$\frac{3}{16}$ in.] 2 in. " 58
"	4	"	"	3	"	[$\frac{1}{4}$ in.] 2 in. " 75
"	4	"	"	3	"	[$\frac{1}{4}$ in.] $2\frac{1}{2}$ in. " 65
"	4	"	"	3	"	[$\frac{1}{4}$ in.] 3 in. " 55
"	4	"	"	0	"	[$\frac{5}{16}$ in.] 3 in. " 75
"	4	"	"	0	"	[$\frac{5}{16}$ in.] 4 in. " 60
"	4	"	"	000	"	[$\frac{3}{8}$ in.] 4 in. " 85
"	9	"	"	13	"	[$\frac{1}{11}$ in.] 1 in. " 60
"	9	"	"	11	"	[$\frac{1}{9}$ in.] $1\frac{1}{4}$ in. " 60
"	9	"	"	10	"	[$\frac{1}{8}$ in.] $1\frac{1}{2}$ in. " 58
"	9	"	"	8	"	[$\frac{1}{6}$ in.] 2 in. " 55
"	9	"	"	6	"	[$\frac{3}{16}$ in.] 2 in. " 63
"	9	"	"	6	"	[$\frac{3}{16}$ in.] 3 in. " 50
"	9	"	"	3	"	[$\frac{1}{4}$ in.] 3 in. " 60
"	9	"	"	3	"	[$\frac{1}{4}$ in.] 4 in. " 55
"	9	"	"	0	"	[$\frac{5}{16}$ in.] 4 in. " 65
"	9	"	"	000	"	[$\frac{3}{8}$ in.] 4 in. " 90
"	10	"	"	6	"	[$\frac{3}{16}$ in.] 4 in. " 50
"	10	"	"	3	"	[$\frac{1}{4}$ in.] 4 in. " 60
"	10	"	"	0	"	[$\frac{5}{16}$ in.] 4 in. " 70
"	10	"	"	3	"	[$\frac{1}{4}$ in.] 4 in. " 80
"	11, 12 or 13	"	"	0	"	[$\frac{5}{16}$ in.] 4 in. " 90
"	11, 12 " 13	"	"	10	"	[$\frac{1}{8}$ in.] $1\frac{1}{2}$ in. " 90
"	12, 13, 14, 16, 42 or 43	"	"	6	"	[$\frac{3}{16}$ in.] $2\frac{1}{4}$ in. " 90
"	12, 13, 14, 16, 42 " 43	"	"	6	"	[$\frac{3}{16}$ in.] 3 in. " 90
"	15 or 16	"	"	3	"	[$\frac{1}{4}$ in.] 4 in. " 90
"	15 " 16	"	"	0	"	[$\frac{5}{16}$ in.] 4 in. " 1 00
"	15 " 16	"	"	000	"	[$\frac{3}{8}$ in.] 4 in. " 1 15
"	15 " 16	"	"	8	"	[$\frac{1}{8}$ in.] 2 in. " 60
"	40	"	"	10	"	[$\frac{1}{8}$ in.] 2 in. " 55
"	41	"	"	8	"	[$\frac{1}{8}$ in.] $1\frac{1}{2}$ in. " 55
"	41	"	"	10	"	[$\frac{1}{8}$ in.] 1 in. " 55

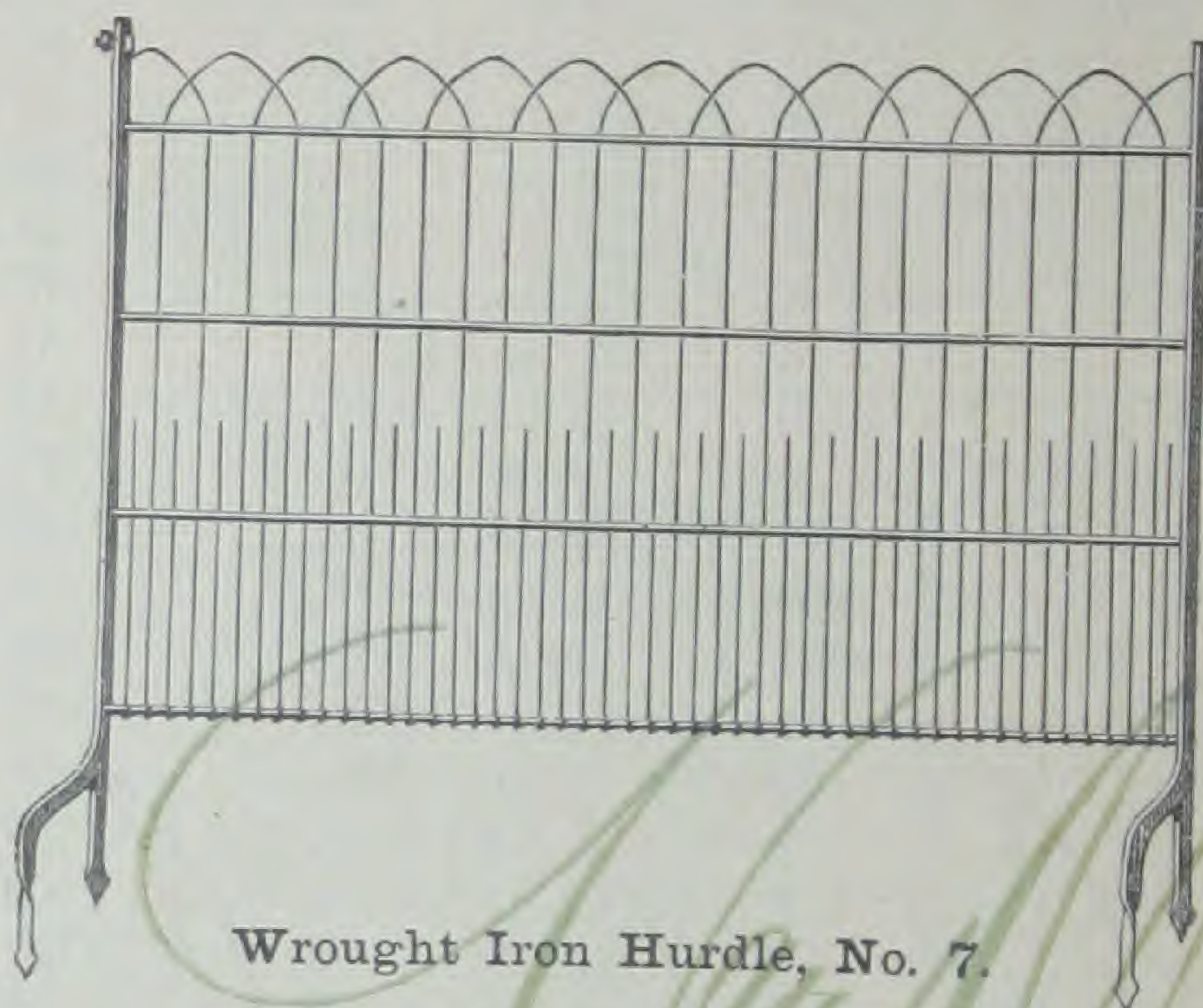
Extra charge for Pickets, cast iron.....	\$0 30 per running foot.
" " wrought iron.....	1 25
" " Rosettes.....	30
" " Banding.....	12 per square foot.
" " Cast Iron Posts.....	from \$7 00 to \$50 00 each.
" " Single Gates.....	" 6 00 to 10 00
" " Drive-way Gates.....	" 15 00 to 30 00
" " Scrolls.....	" 5 00 to 25 00

Extra charge for small pieces or irregular shapes.

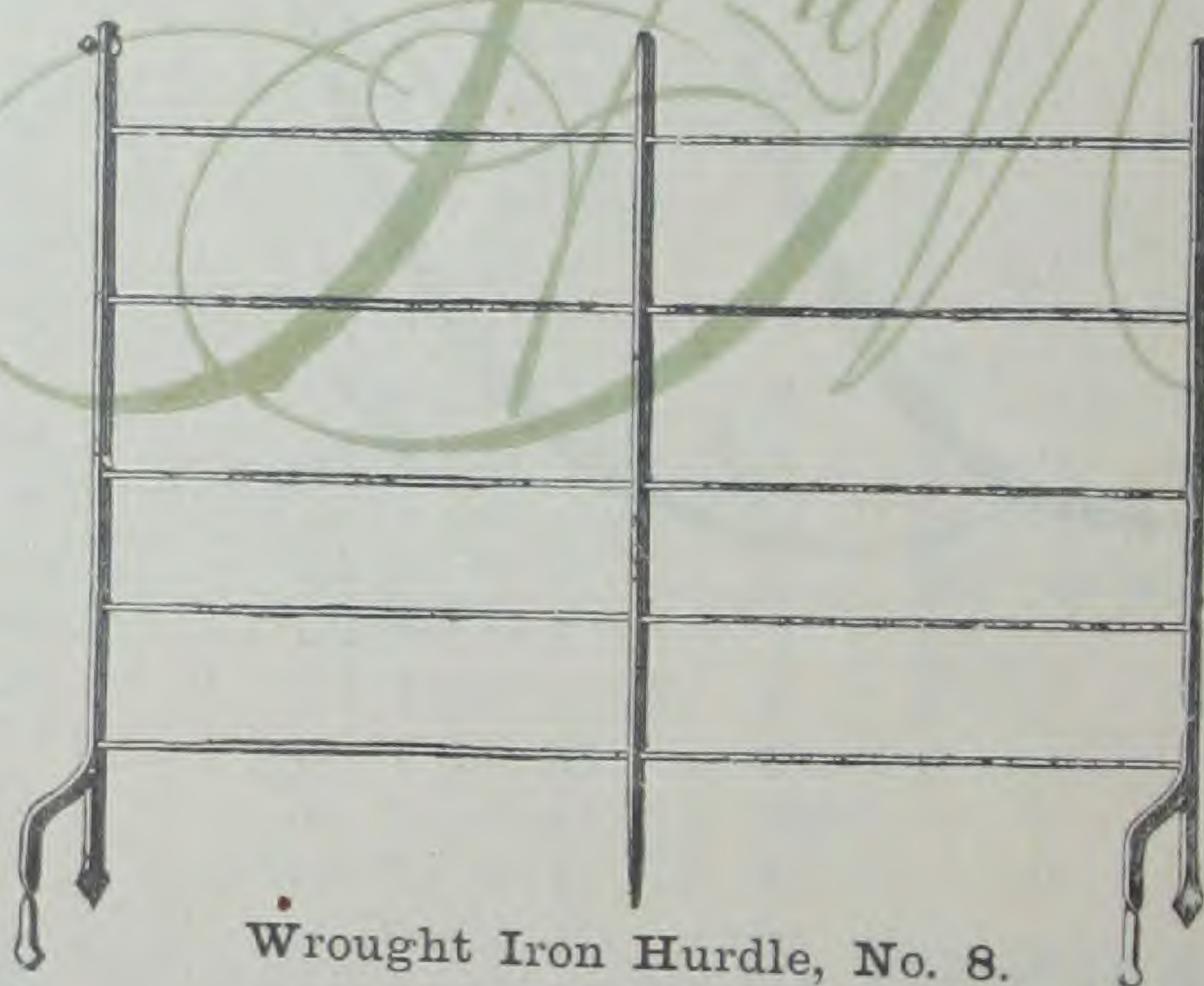
Fencing, Railing and Guards galvanized at 6 cents per pound net.

When required, a competent man will be sent to take dimensions of Store Fronts, Guards, Railing or Fencing, and give estimate of cost. Work put up when completed at the lowest rates.

WROUGHT IRON HURDLES.



Wrought Iron Hurdle, No. 7.



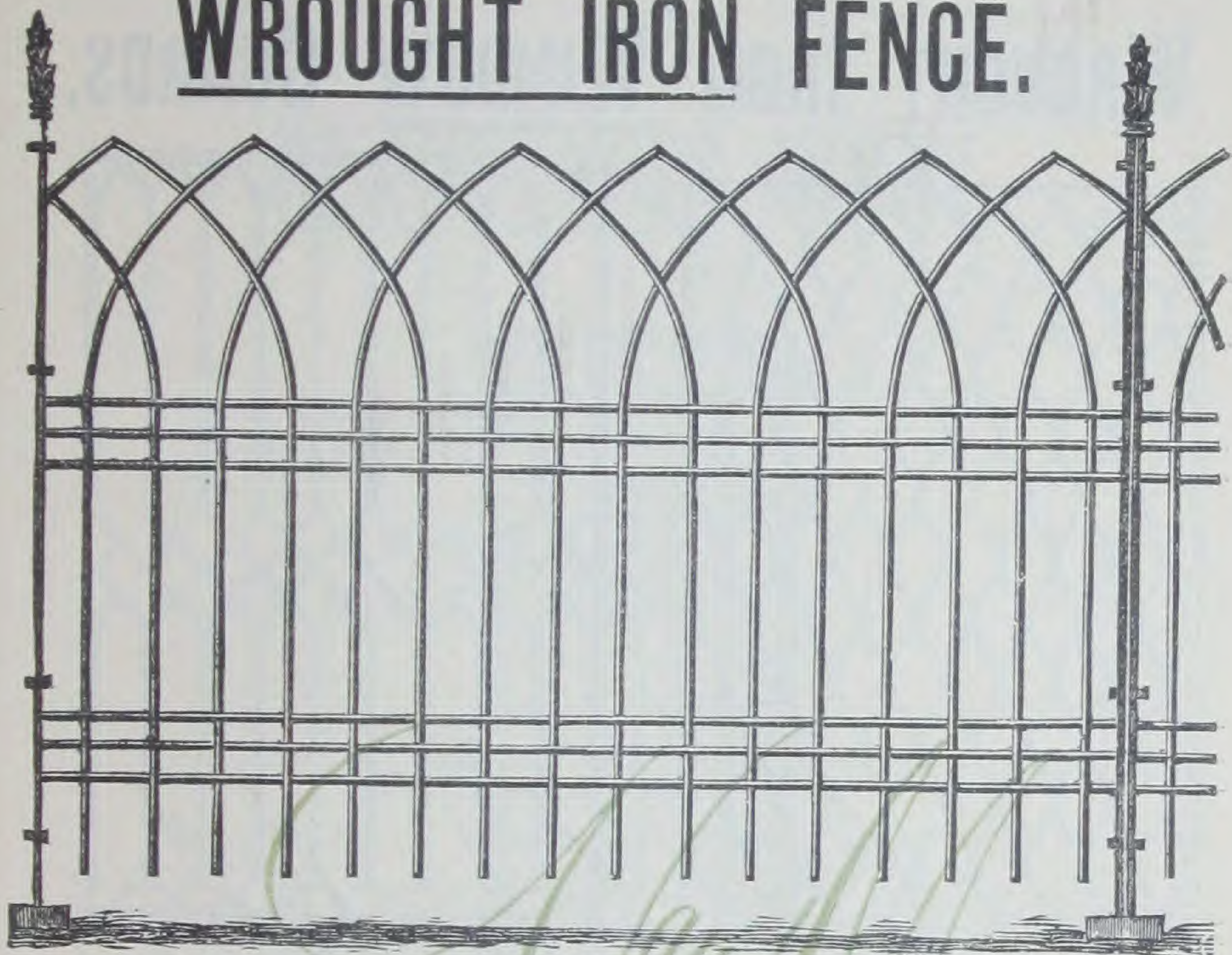
Wrought Iron Hurdle, No. 8.

We show two styles of **HURDLES**, which can be made in great variety of patterns. They are made in sections of 6 feet long by 48 inches high, with feet or prongs to run in the ground 12 inches. The sections are strongly bolted together at the top and bottom with screw bolts, making the most substantial and ornamental Portable Fence in use. They are easily put up, and can readily be removed for re-erection in any other part of the pasture at pleasure.

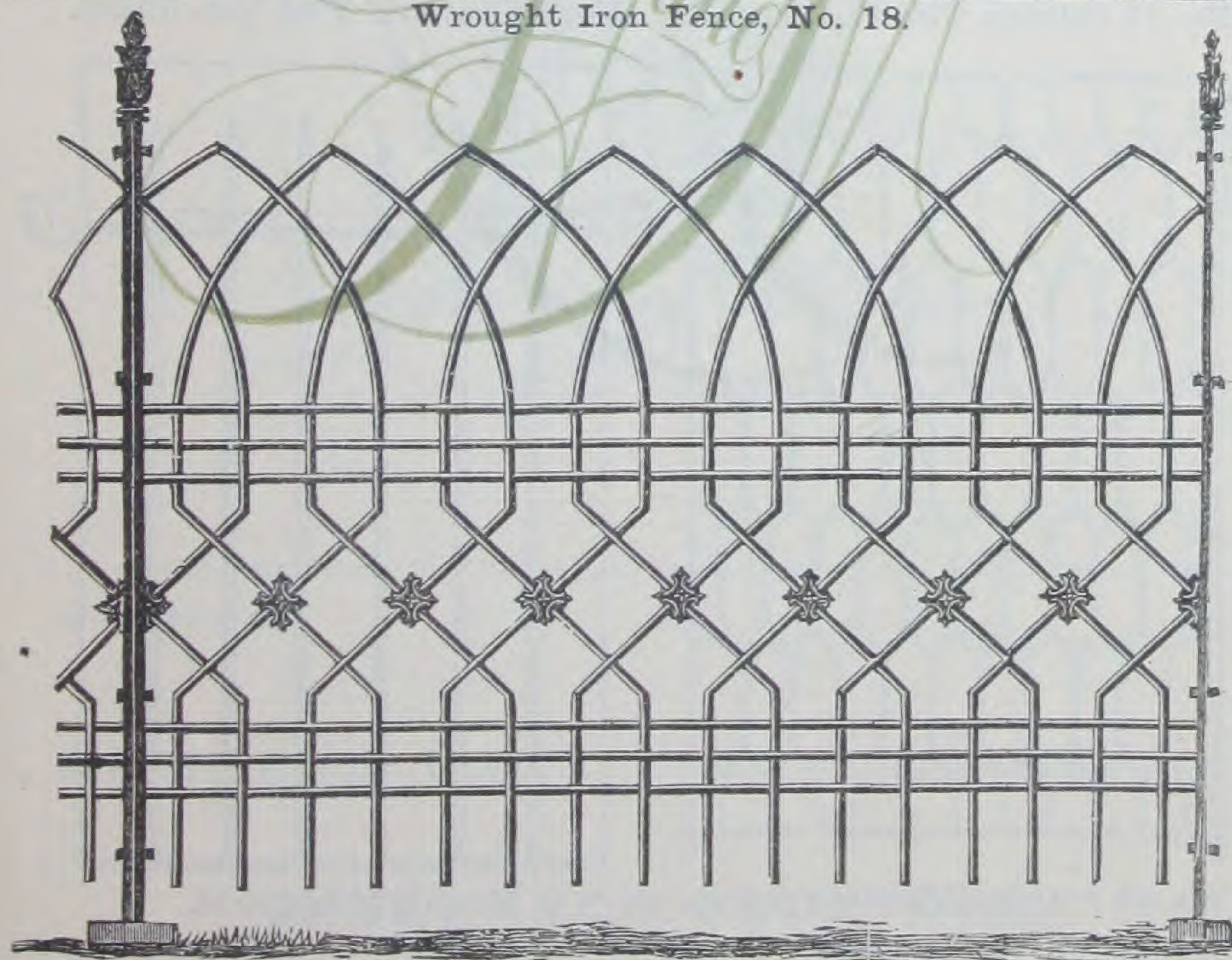
Prices of Wrought Iron Hurdles.

Section 48 in. x 6 ft., as shown in cut No. 7.....	\$6 00 each.
“ 48 in. x 6 ft., “ “ “ 8.....	4 00 “
“ 48 in. x 6 ft., covered with Diamond Work.....	8 00 “

WROUGHT IRON FENCE.



Wrought Iron Fence, No. 18.



Wrought Iron Fence, No. 19.

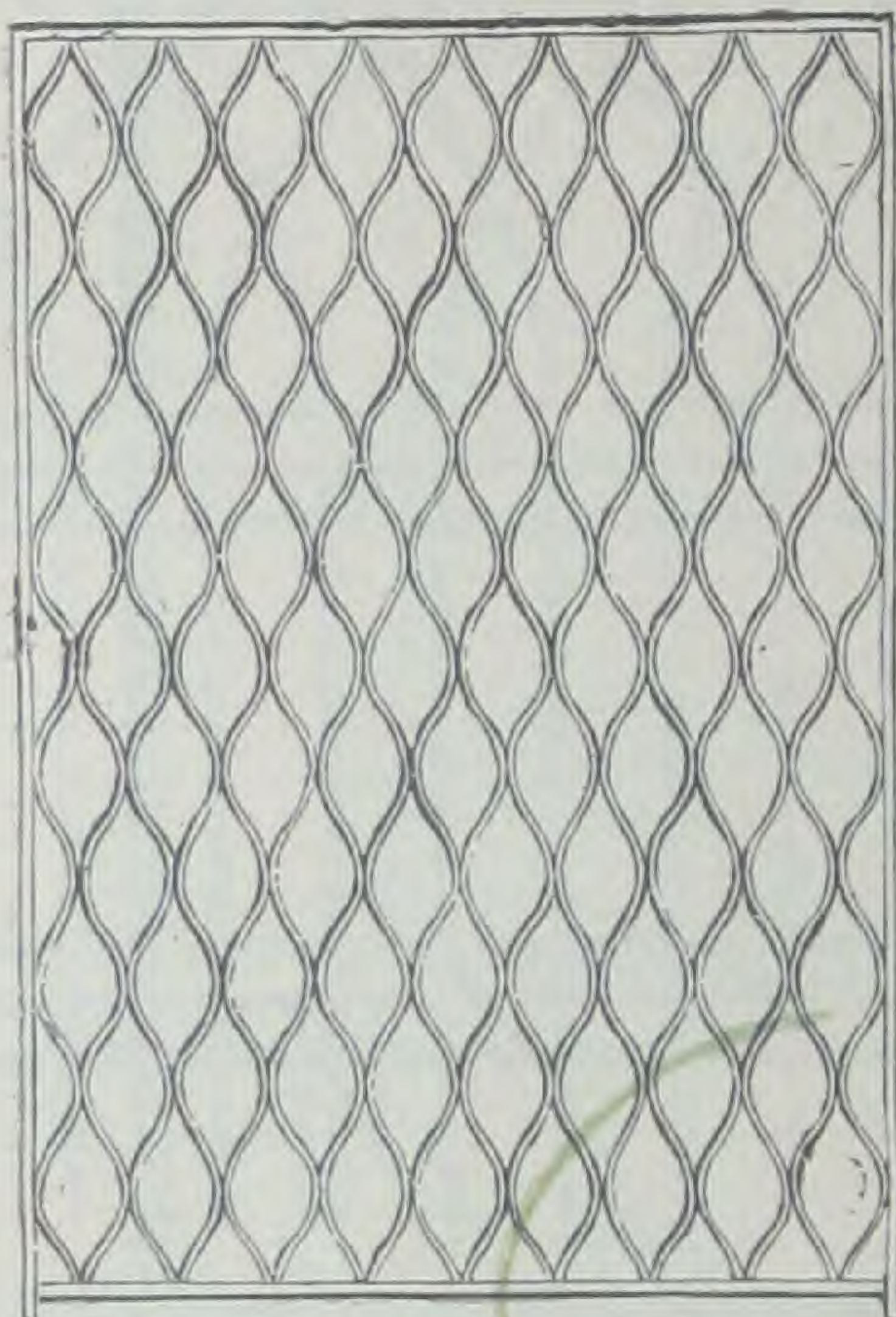
Prices of Wrought Iron Fence.

No. 18	Pattern, as per cut, 4 in. space, $\frac{3}{8}$ in. Rods, $3\frac{1}{2}$ feet high.	\$1 75 per foot.
" "	" " " " " 4 " "	2 00 "
" 19	" " " " " $3\frac{1}{2}$ " "	2 25 "
" "	" " " " " 4 " "	2 50 "

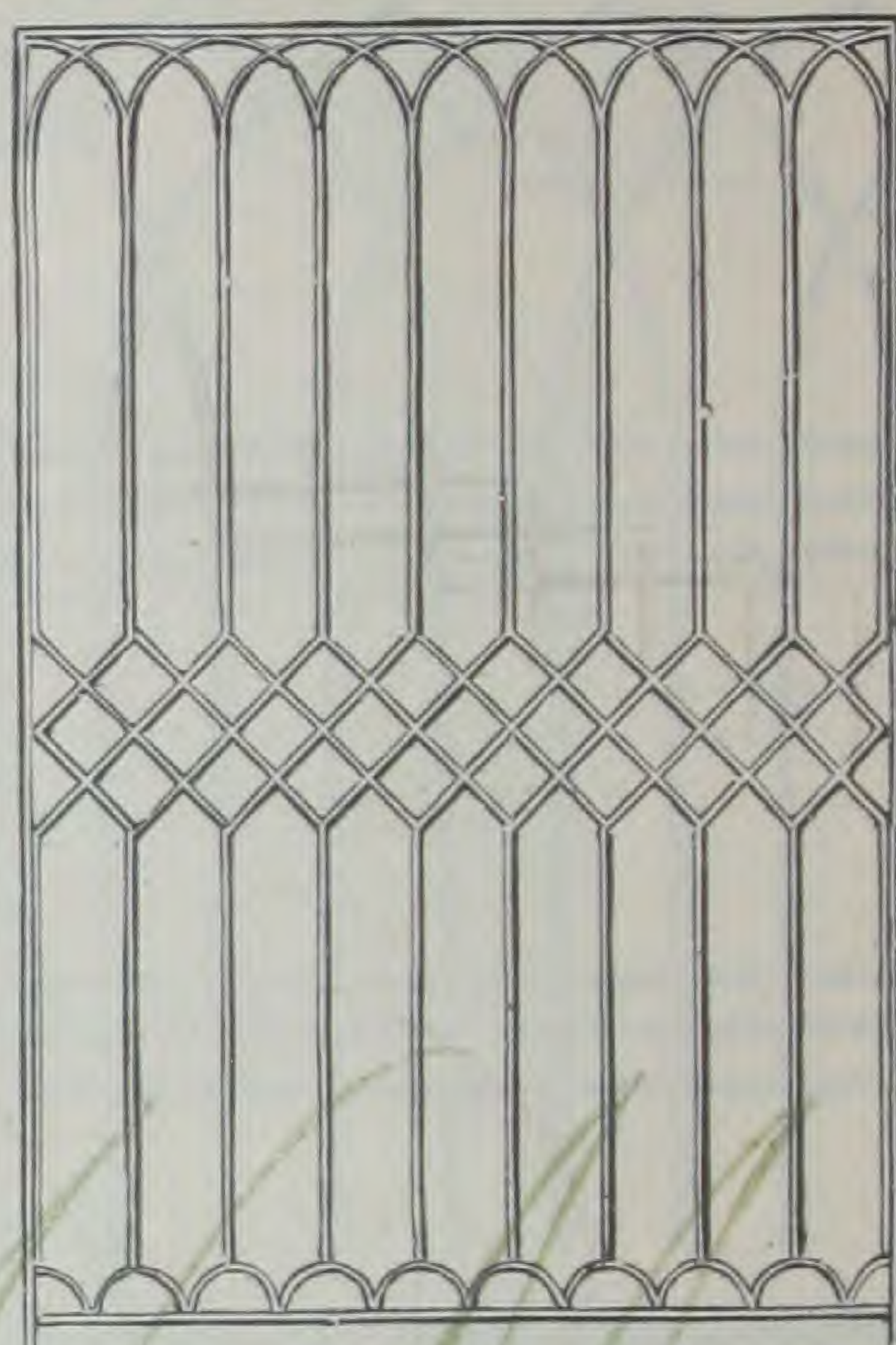
Price includes Posts, with caps, as per cut, bolted together.

The above patterns are designed as partition fences, or to enclose parks surrounding country residences. This work combines both beauty and strength, yet withal being so light as not to obstruct the view.

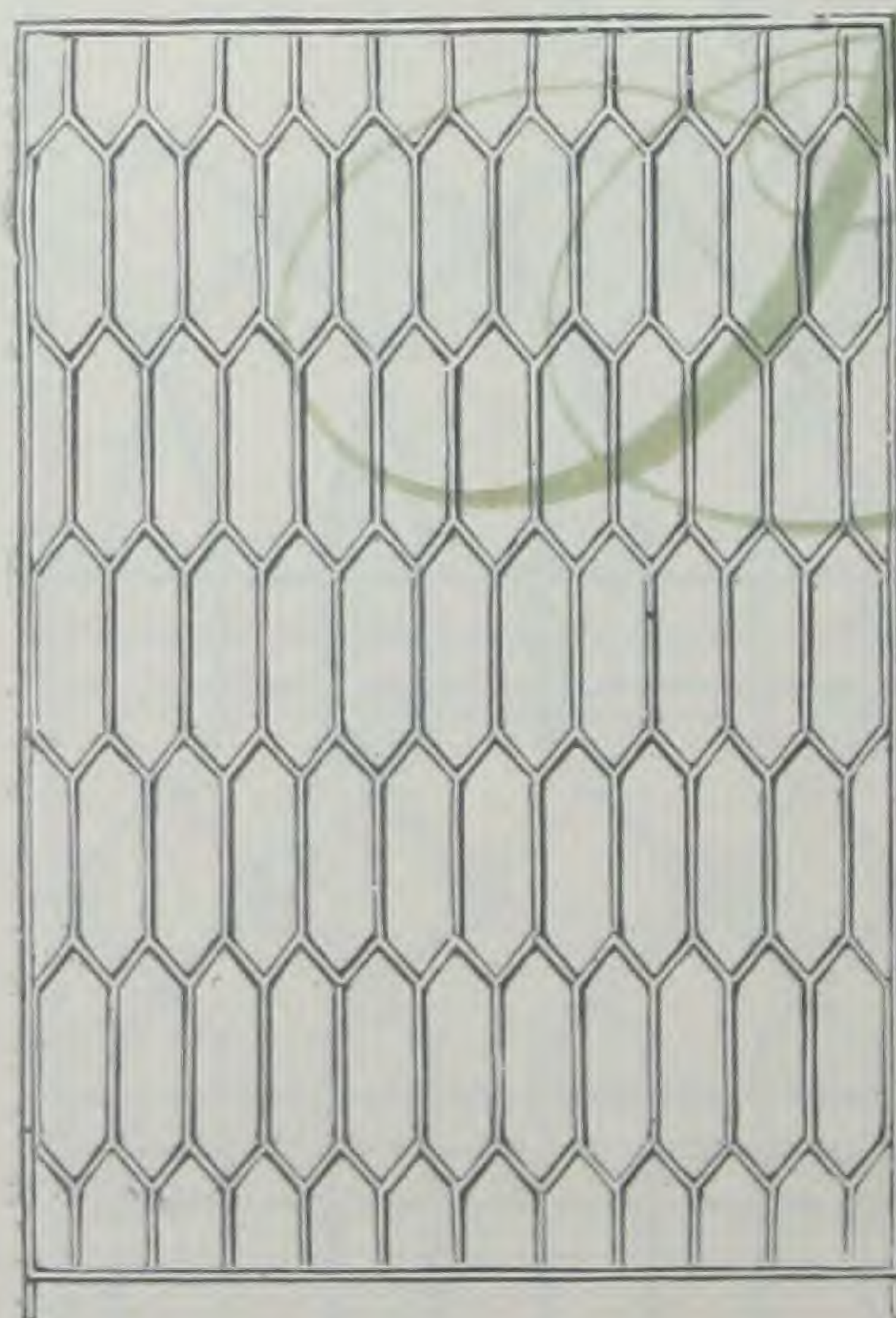
WROUGHT IRON WINDOW GUARDS.



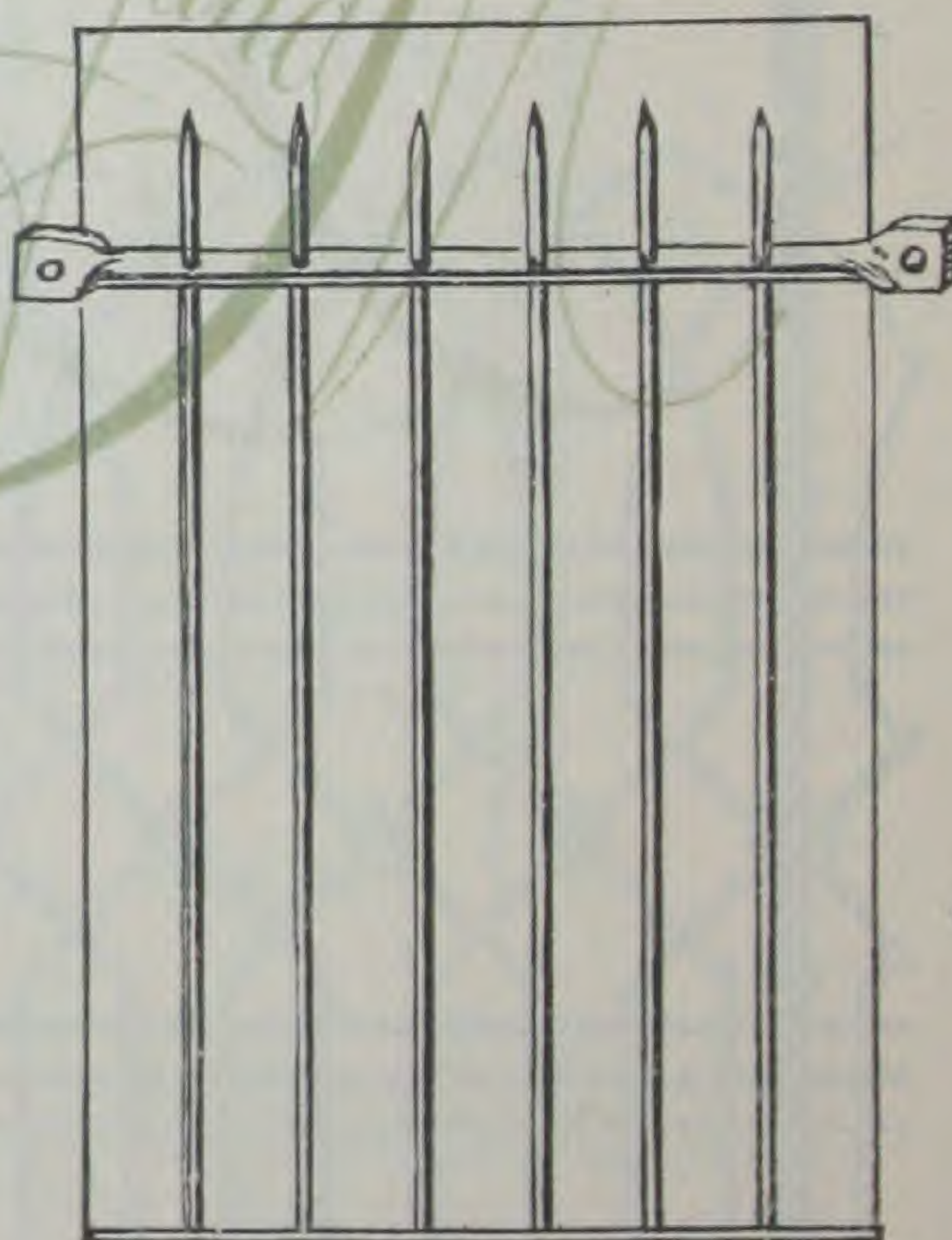
No. 51 Pattern, Flat Iron Guard.



No. 52 Pattern, Flat Iron Guard.



No. 53 Pattern, Flat Iron Guard.



Round Iron Guard.

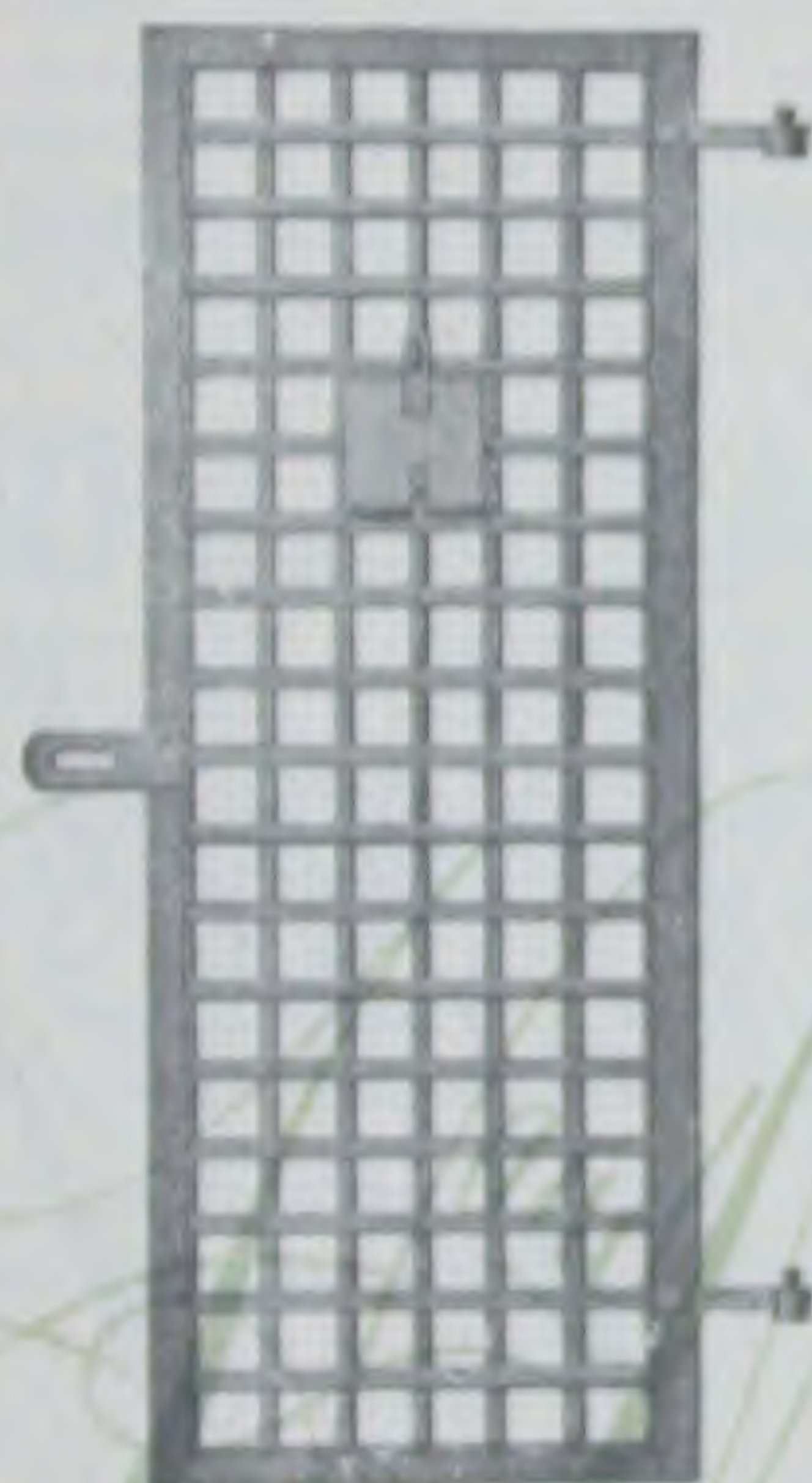
All Rivetted at Intersecting Points.

Price of Flat Wrought-Iron Guards.

No.	Pattern	Mesh	No.	Gauge	by	in.	Iron	per sq. ft.
No. 51	"	3 in.	No. 12	"	"	"	"	80c.
" 51	"	3 1/2	" 12	"	"	"	"	80c.
" 52	"	3	" 12	"	"	"	"	85c.
" 52	"	3 1/2	" 12	"	"	"	"	85c.
" 53	"	3	" 12	"	"	"	"	90c.
" 53	"	3 1/2	" 12	"	"	"	"	90c.

Extra charge for Rosettes and Pickets.

HEAVY IRON WORK.



Wrought Iron Cell Door, with Food Trap.

All work Rivetted at Intersecting Points.

In this department of work we are prepared to estimate on all needs, such as the following :

CELL AND BANK VAULT DOORS,

SHEET IRON SHUTTERS,

BURIAL VAULT GATES,

FIRE ESCAPES, Etc., Etc.

WIRE SIGNS.



CALVANIZED WIRE SIGNS,

Light, Graceful, Prominent, Weather-Proof.

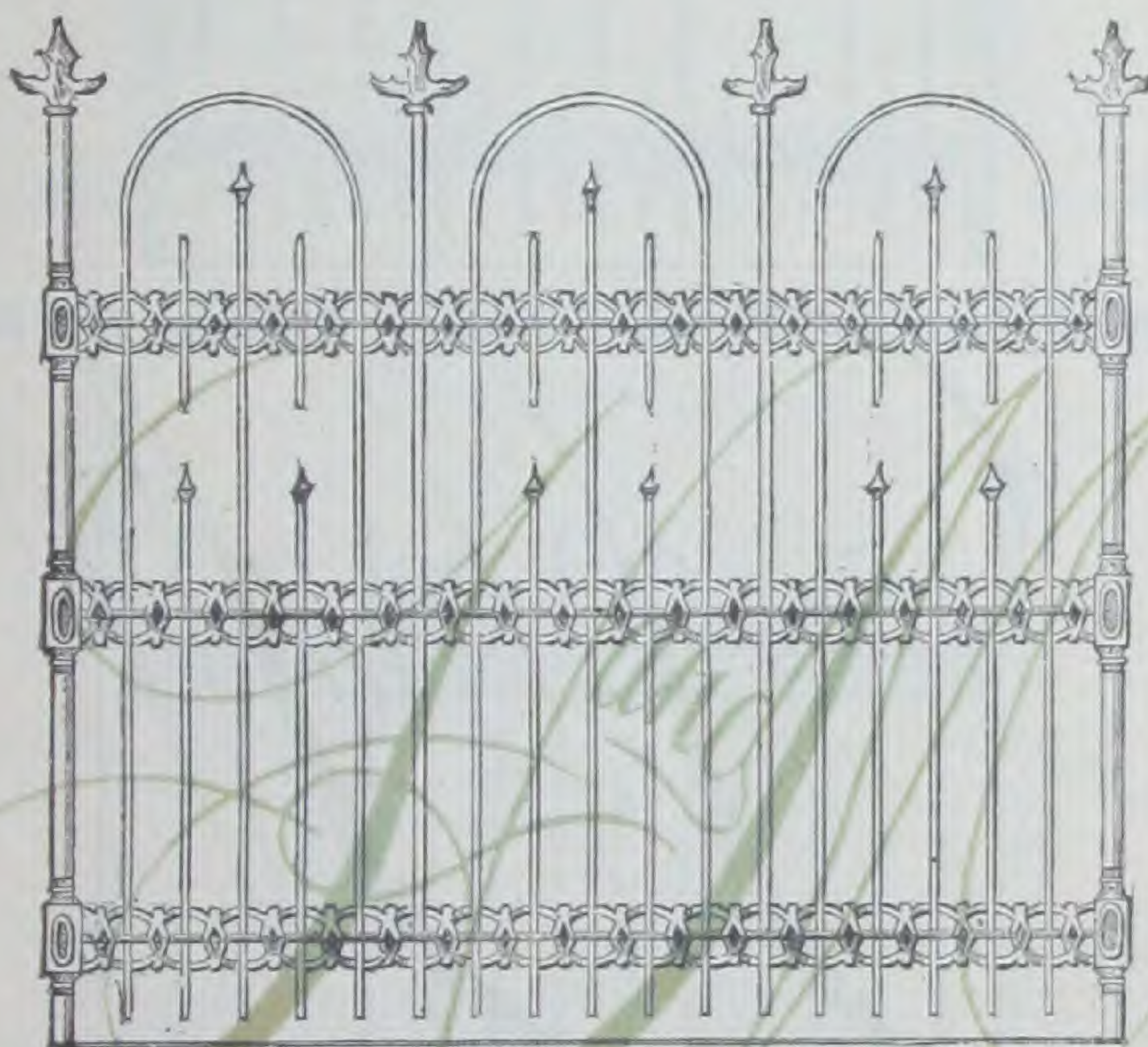
Made of iron wire, of a gauge to correspond in strength with the size of sign required, inserted into strong iron frames and galvanized. Letters of galvanized sheet-iron or zinc (painted) of a character to suit individual requirements.

Particular attention is invited to the merits of Wire Signs constructed for erection in continuous lengths on roofs of manufacturing establishments located on water fronts or on railroad lines, where a prominent sign may be desirable. In such positions, and at a distance from the observer, the wires are invisible, the frame and inscription alone appearing boldly, with a sky background, while the small surface presented is unaffected by the action of the wind.

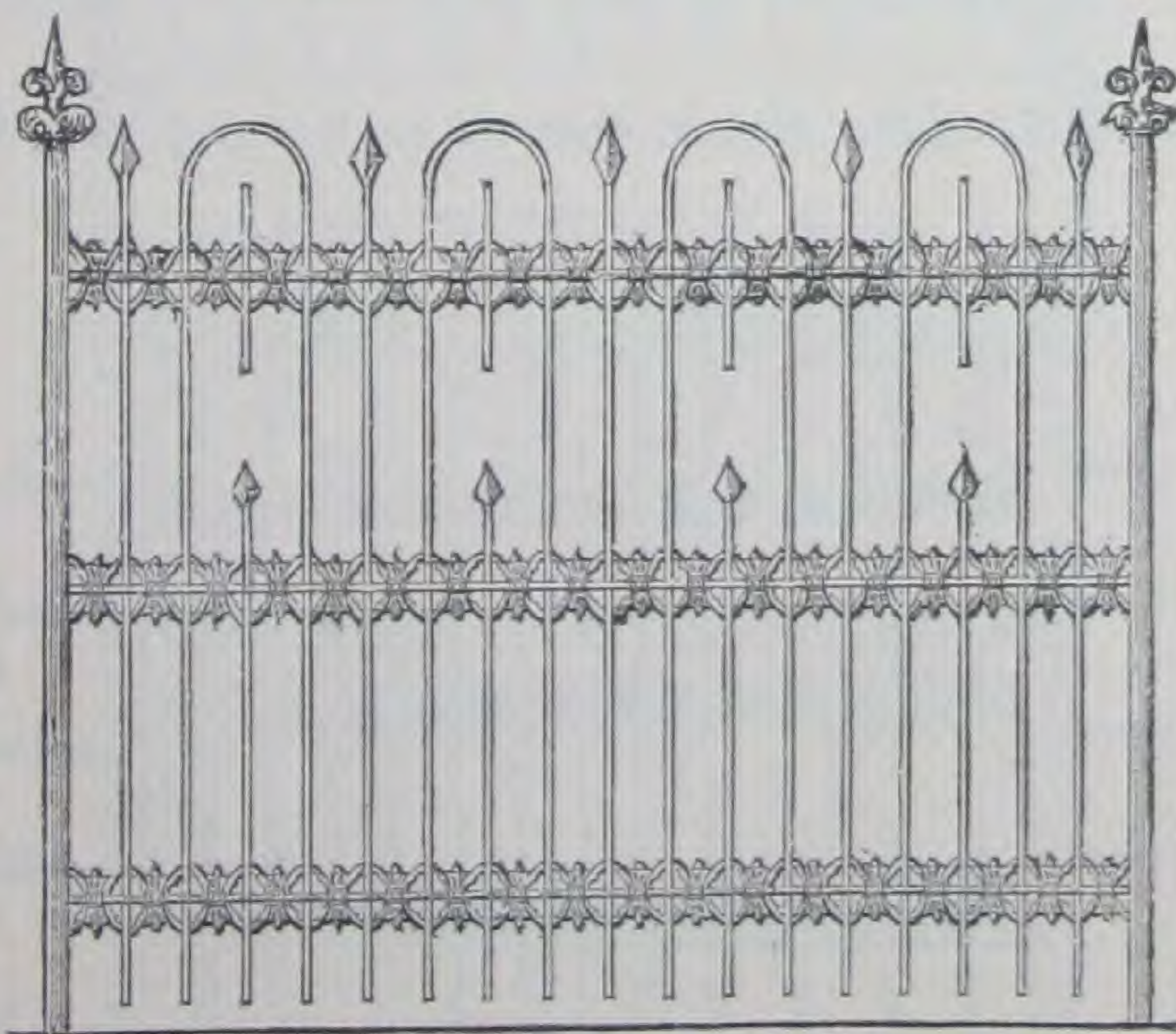
In asking for estimates, mention all particulars of height, length, inscription, etc., required.

PATENT LOCK-BAR IRON RAILING.

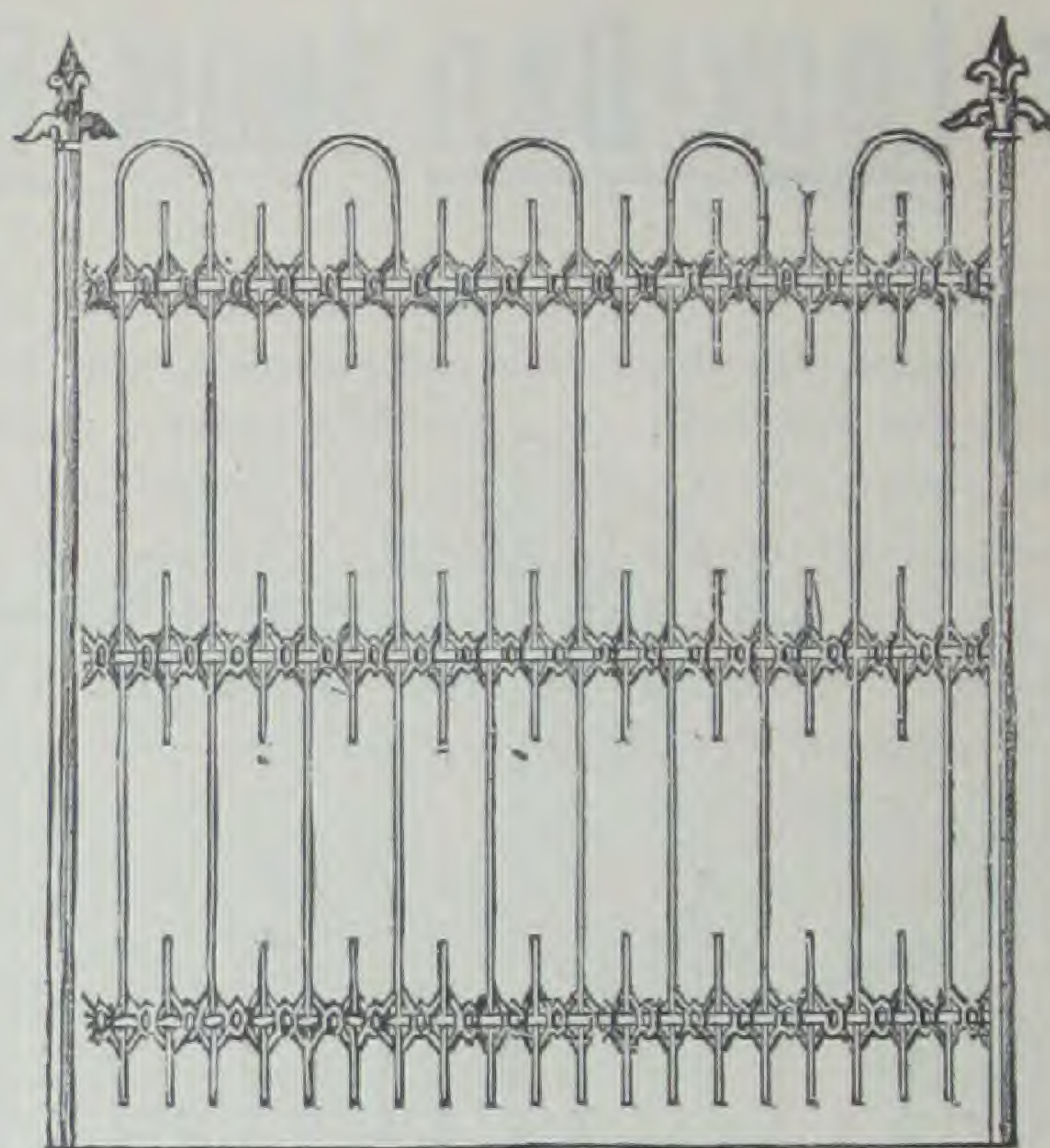
The following patterns of Lock-bar Railings have been designed with the view of providing a light, yet strong and serviceable, low railing for Private Parks, Church Enclosures, Lawns, etc., and have given universal satisfaction where erected. It is usually made of $\frac{3}{8}$ in. rods, inserted through ornamental malleable iron castings, which are backed by other rods of the same weight deeply crimped, so that the whole is interlocked, securing an absolute uniformity of distances between the rods, and a great degree of strength. Can be set either in stone or wooden posts.



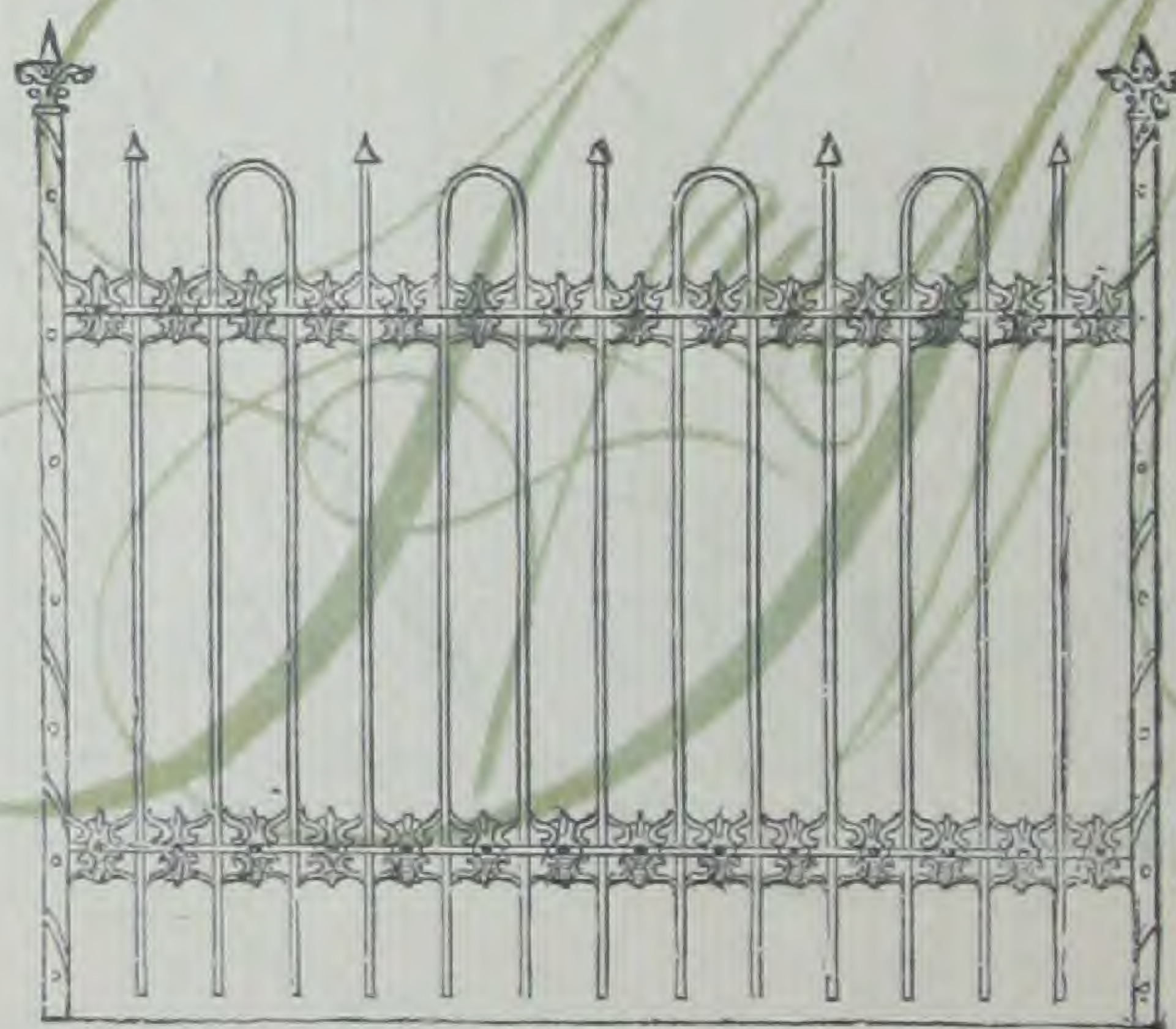
Patent Lock-bar Fence, Guards or Railing, No. 25.



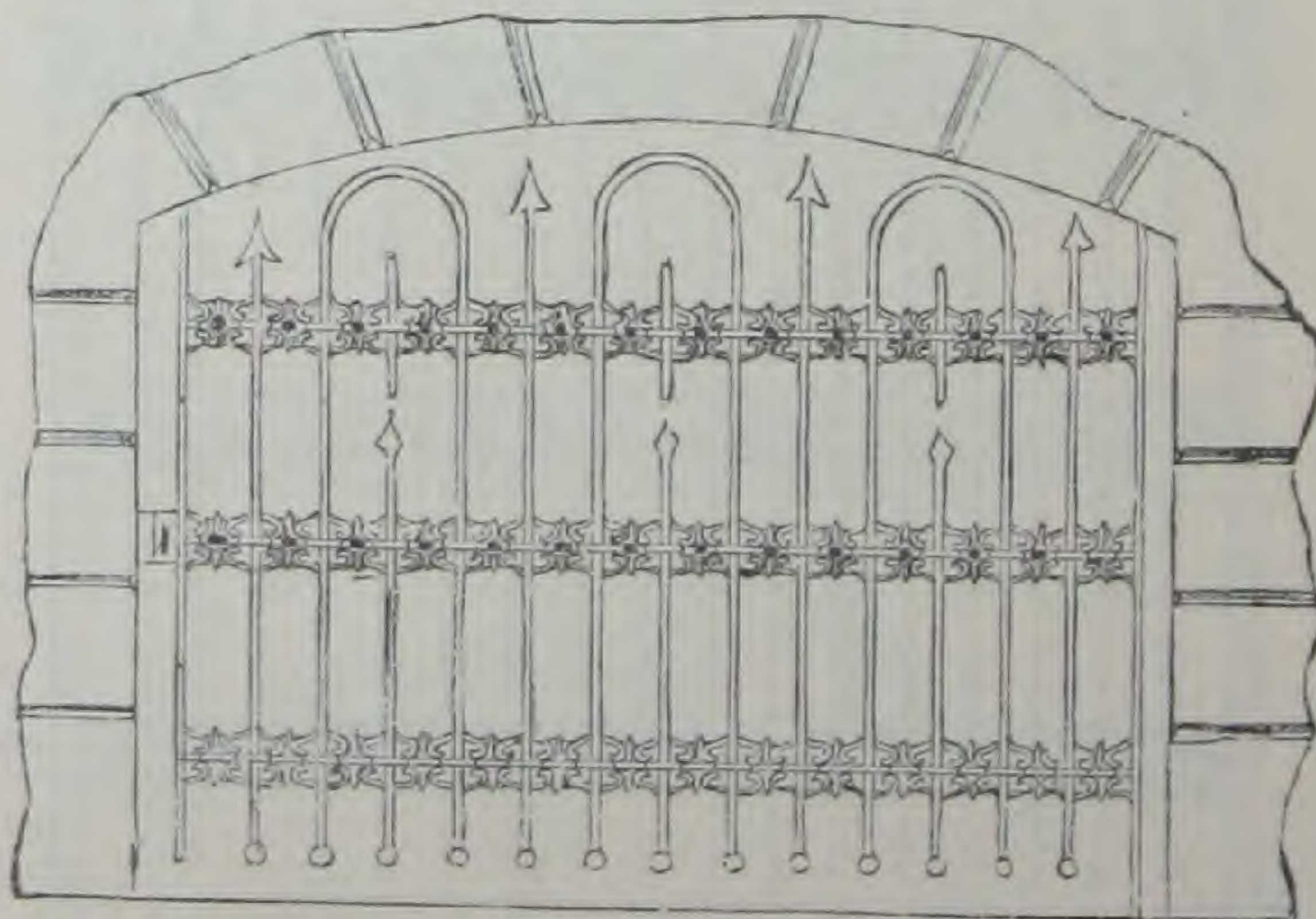
Patent Lock-bar Fence, Guards or Railing, No. 26.



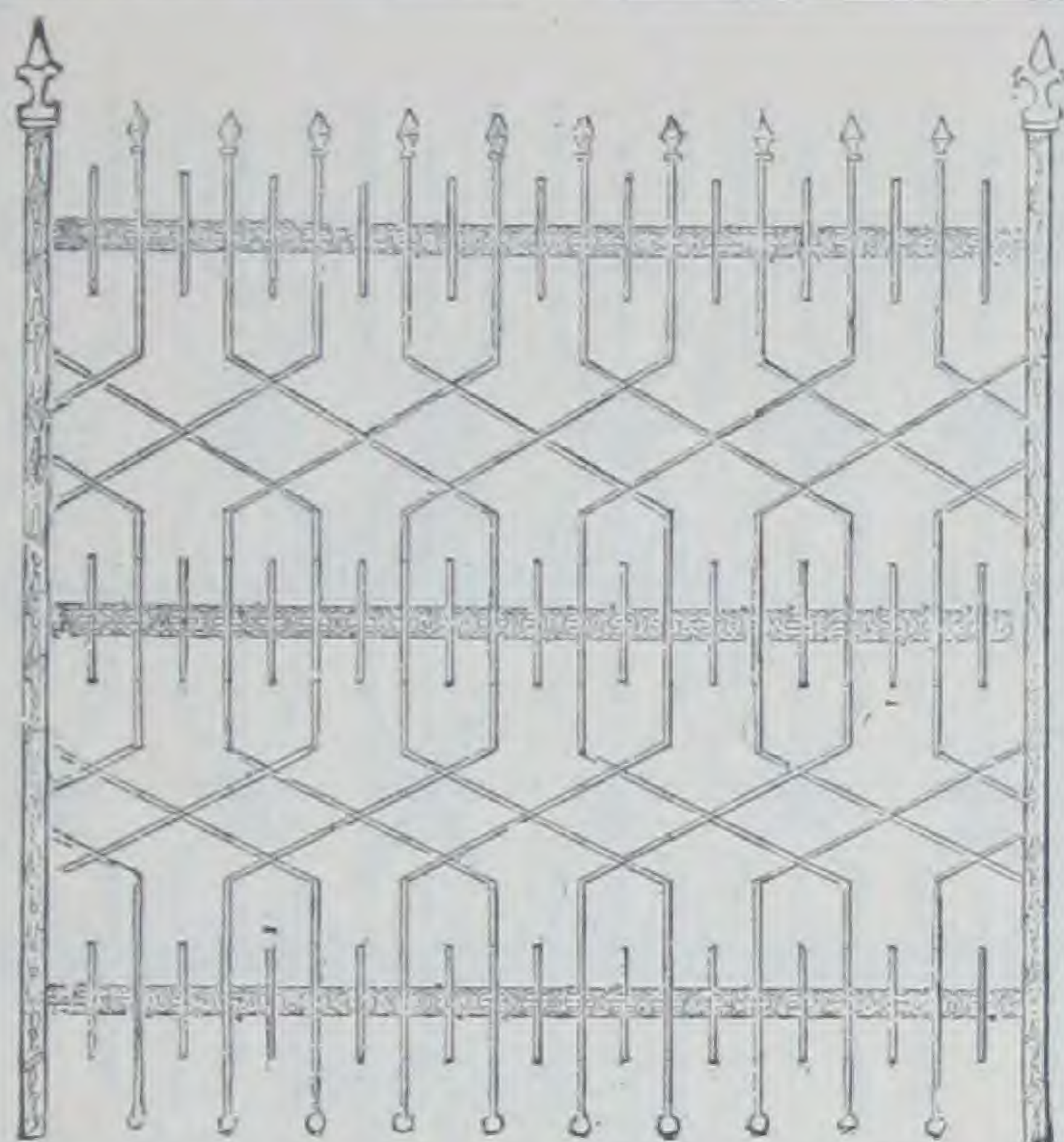
Patent Lock-bar Fence, Guards or Railing, No. 27.



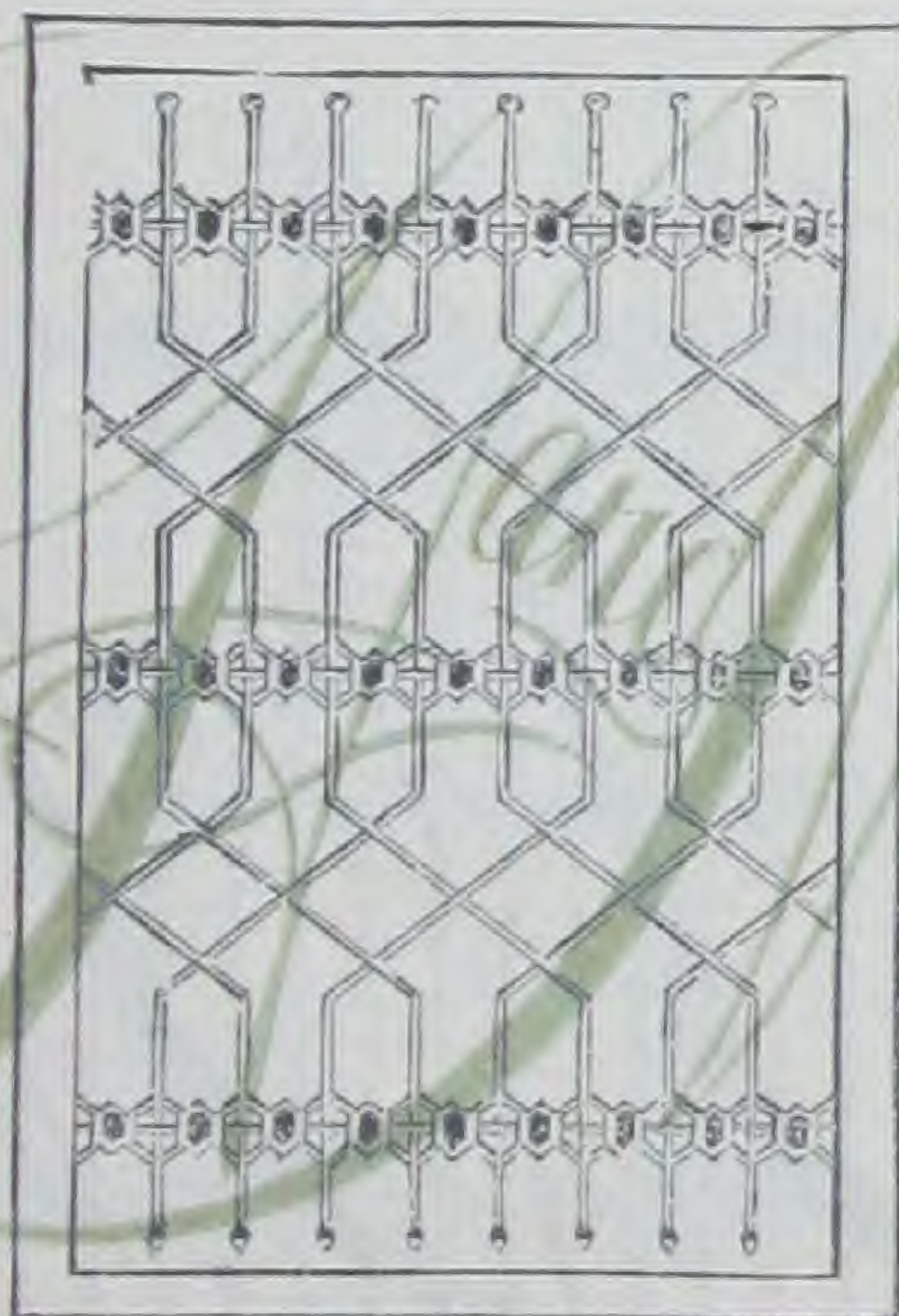
Patent Lock-bar Fence, Guards or Railing, No. 28.



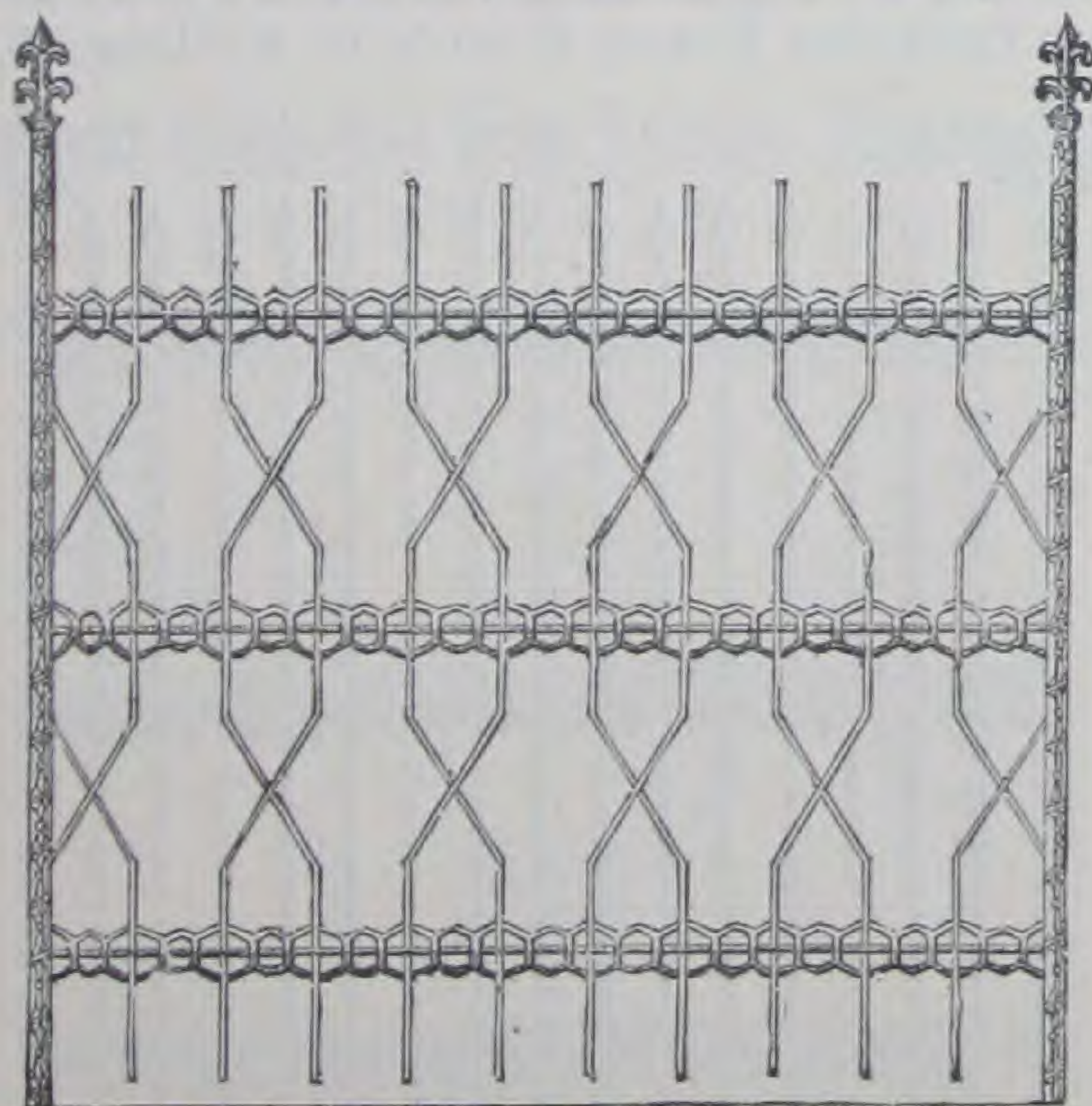
Patent Lock-bar Fence, Guards or Railing, No. 29.



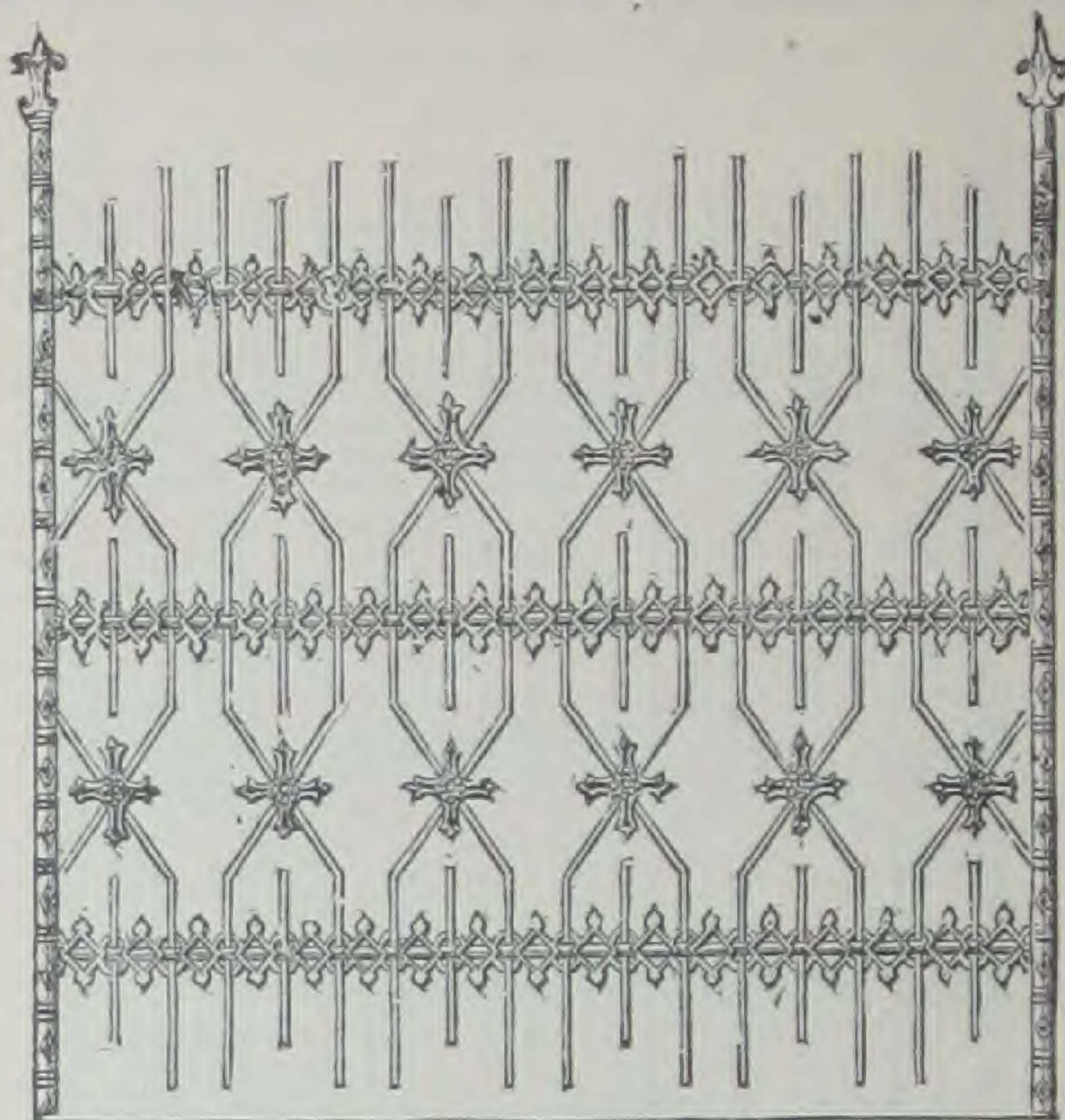
Patent Lock-Bar Fence, Guards or Railing, No. 30.



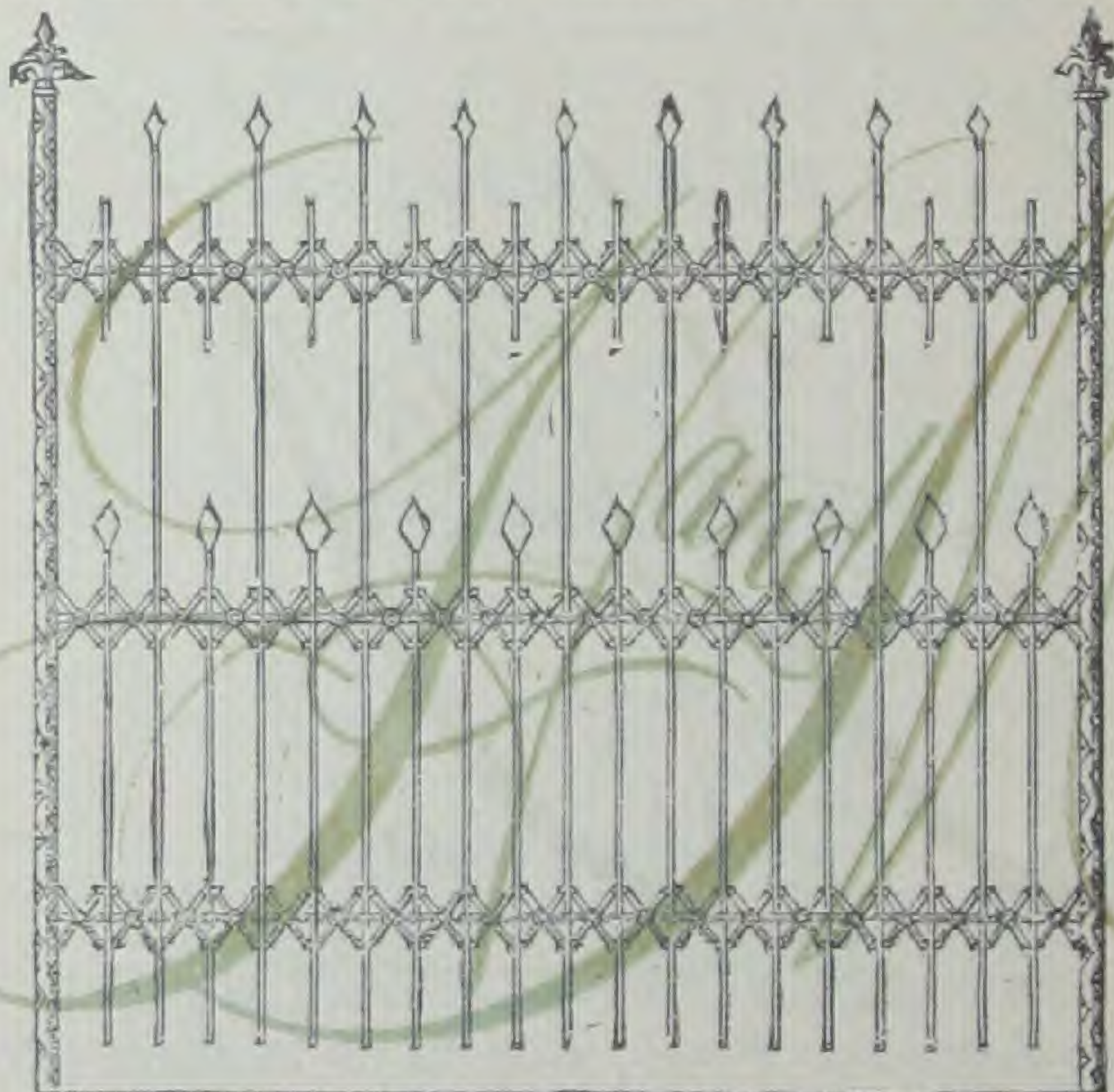
Patent Lock-Bar Fence, Guards or Railing, No. 31.



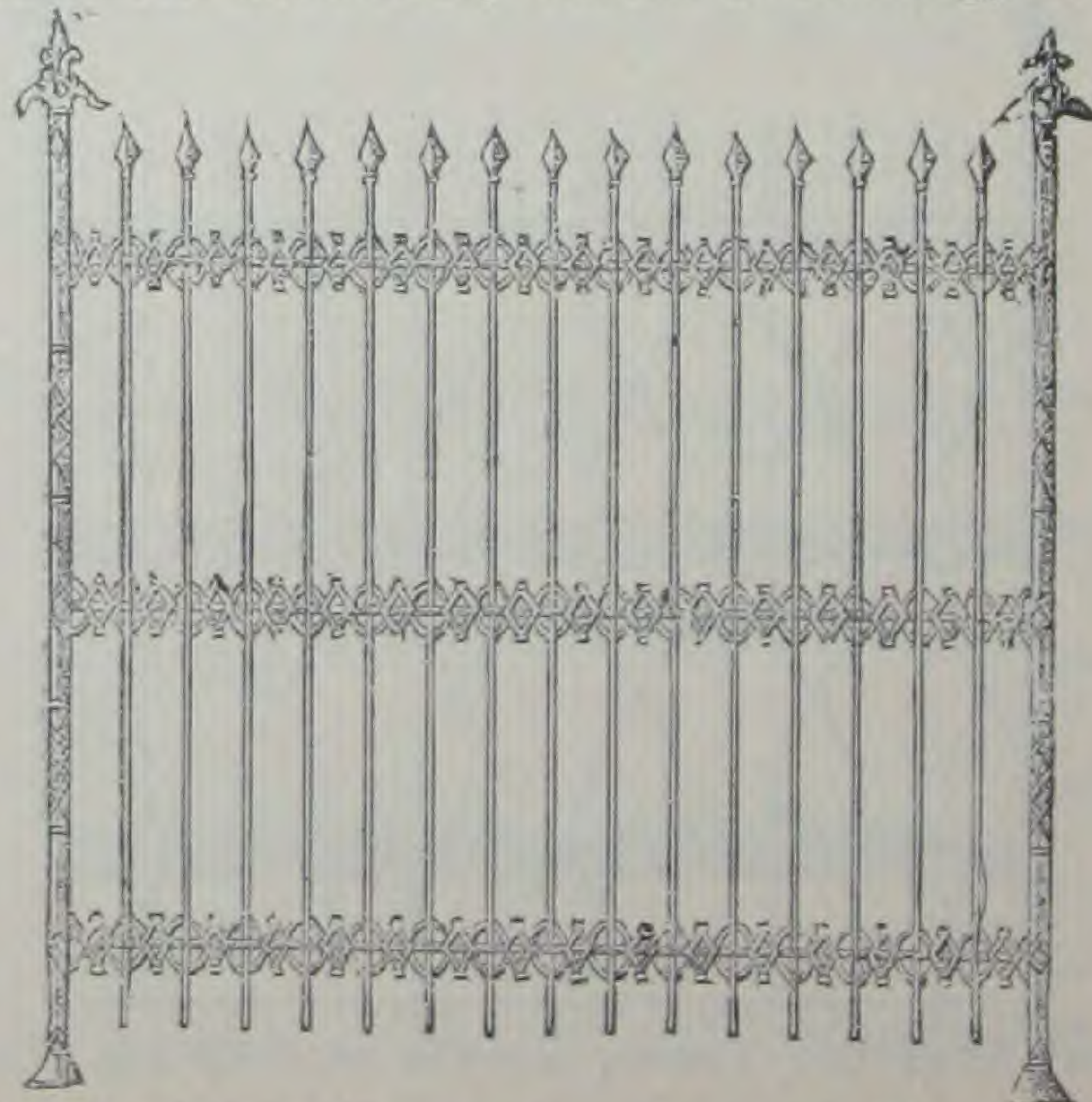
Patent Lock-Bar Fence, Guards or Railing, No. 32.



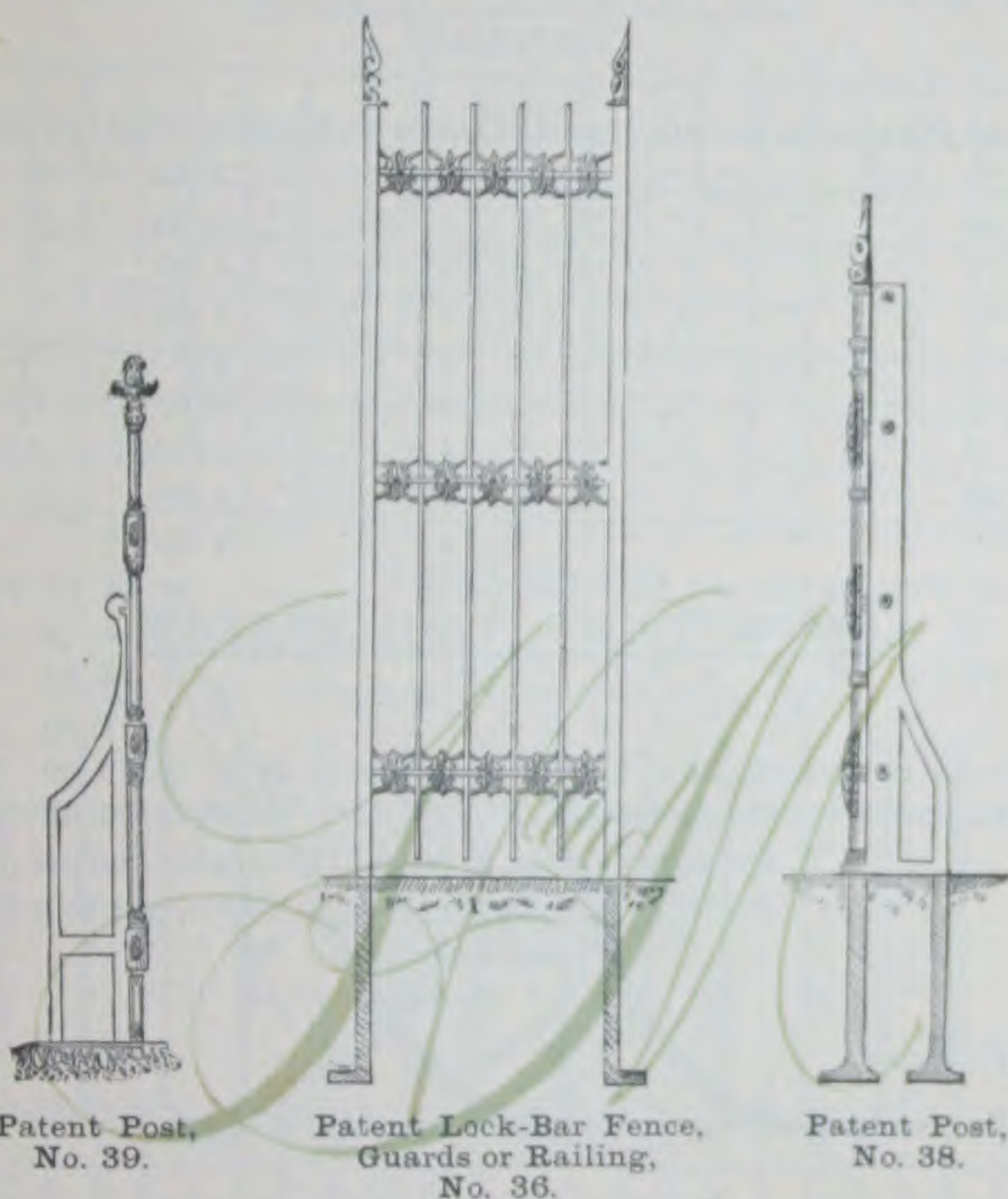
Patent Lock-bar Fence, Guards or Railing, No. 33.



Patent Lock-bar Fence, Guards or Railing, No. 34.



Patent Lock-bar Fence, Guards or Railing, No. 35.



Patent Post,
No. 39.

Patent Lock-Bar Fence,
Guards or Railing,
No. 36.

Patent Post,
No. 38.

Prices of Patent Lock-Bar Iron Fence, Guards or Railings.

No. 25 Pattern, as per cut, $\frac{3}{8}$ in. rods, 3 ft. high, at \$2 00 per running foot.

No.	25	26	27	28	29	30	31	31
Pattern	as per cut	as per cut	as per cut	as per cut	as per cut	as per cut	as per cut	as per cut
Height	3 ft.	3 ft.	3 ft.	3 ft.	3 ft.	3 ft.	3 ft.	3 ft.
Price	2 50	2 00	2 50	2 00	2 50	2 50	2 50	3 00
Height	4 ft.	4 ft.	4 ft.	4 ft.	4 ft.	4 ft.	4 ft.	4 ft.
Price	2 50	2 25	2 50	2 25	2 50	3 00	3 00	3 00

Prices of Patent Lock-bar, Iron Fence, Guards and Railing.

Continued.

No. 32	Pattern, as per cut,	$\frac{3}{8}$ in. Rods, 3 ft. high,	at \$2 25 per run'g ft.
" "	" "	" " " " " "	4 " " " 2 75 " " "
" 33	" "	" " " " " "	3 " " " 3 50 " " "
" "	" "	" " " " " "	4 " " " 4 00 " " "
" 34	" "	" " " " " "	3 " " " 2 00 " " "
" "	" "	" " " " " "	4 " " " 2 50 " " "
" 35	" "	" " " " " "	3 " " " 2 00 " " "
" "	" "	" " " " " "	4 " " " 2 50 " " "
" 36	" "	" " " " " "	3 " " " 2 00 " " "
" "	" "	" " " " " "	4 " " " 2 50 " " "
" 38	Post, as per cut, for 3 feet fence.....	.....	at \$4 50 each.
" "	" "	" " " " 4 " "	" " " " 4 75 "
" 39	" "	" " " " 3 " "	" " " " 4 25 "
" "	" "	" " " " 4 " "	" " " " 4 50 "
Posts, more ornamental or heavier....at from \$7 00 to 50 00 "			
Extra charge for Single Gates....." " 5 00 to 10 00 "			
" "	" "	Driveway Gates, at from \$12 00 to \$25 00 per pair.	
" "	" "	Additional Malleable bars, at 50 cts. pr run'g foot.	
" "	" "	Cast Rosettes, " 35 " " " "	
" "	" "	Pickets, " 50 " " " "	

Discount,

Extra charge for small pieces or irregular shapes.

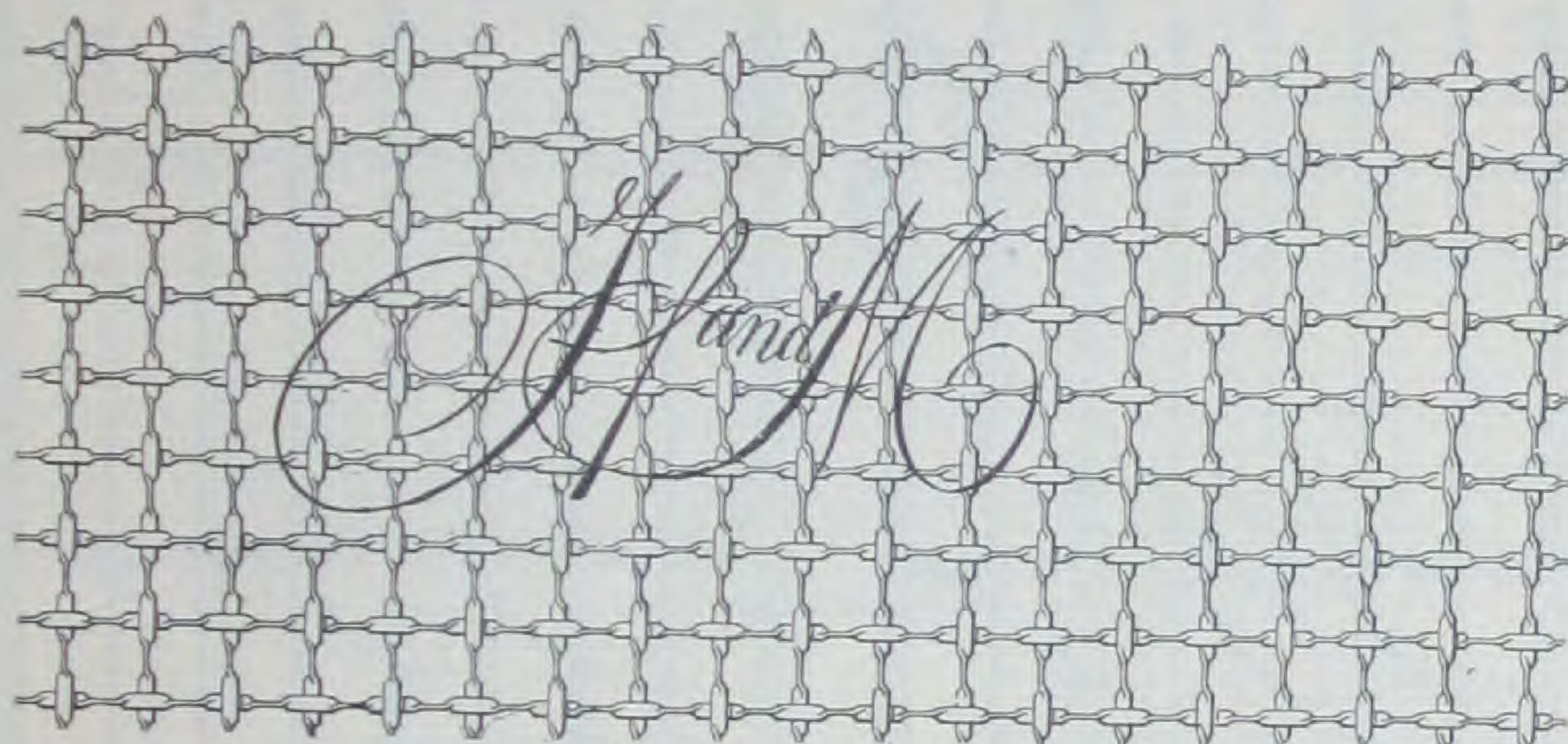
All Fences, Railing and Guards, are painted without charge.

Fences, Guards and Railing galvanized, at an additional charge of 6 cents per pound, net cash.

When required, a competent man will be sent to take dimensions and give estimate of cost.

Work put up, when completed in a substantial and workmanlike manner, at the lowest rates.

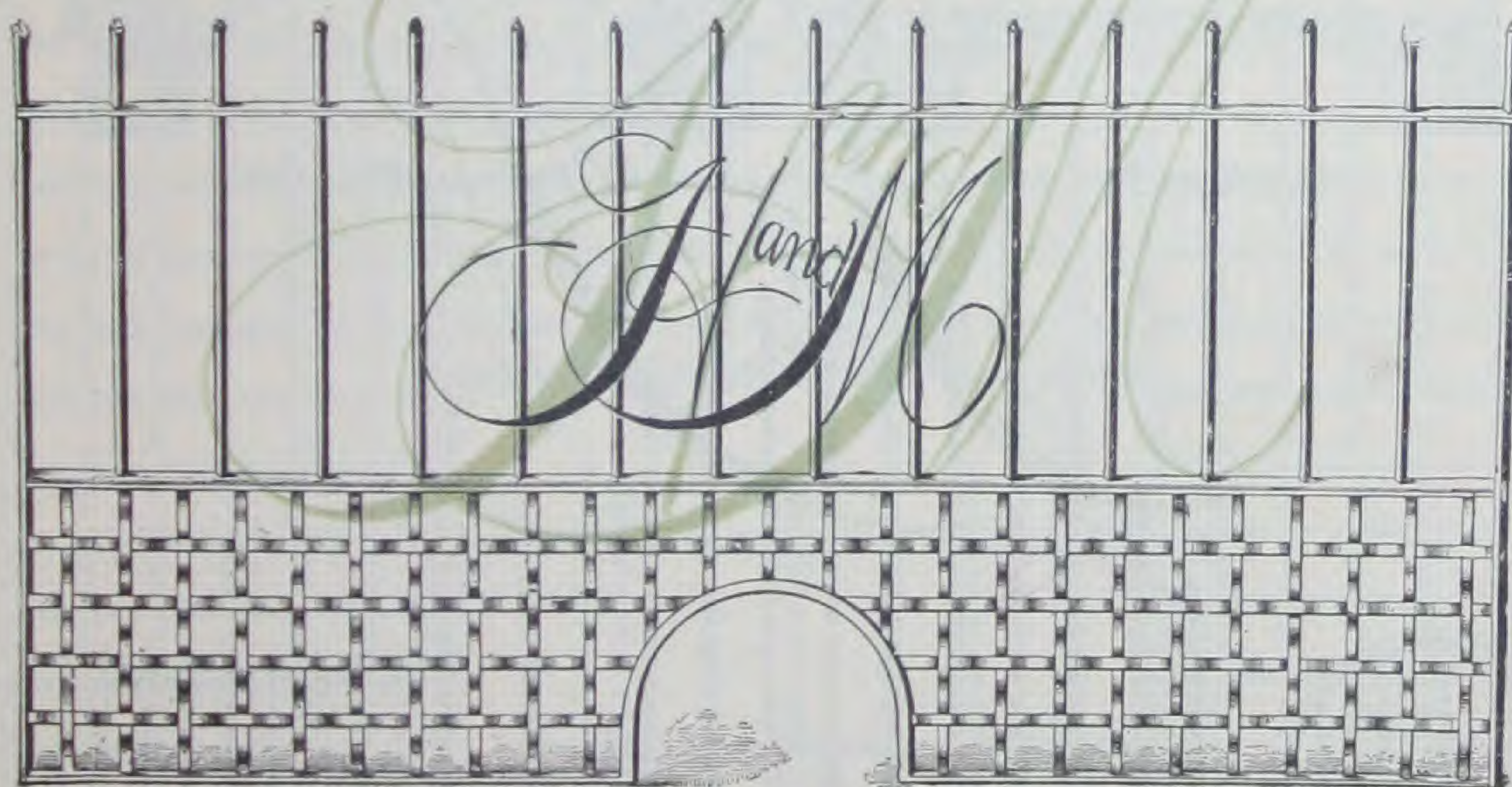
BRASS BANK COUNTER WORK.



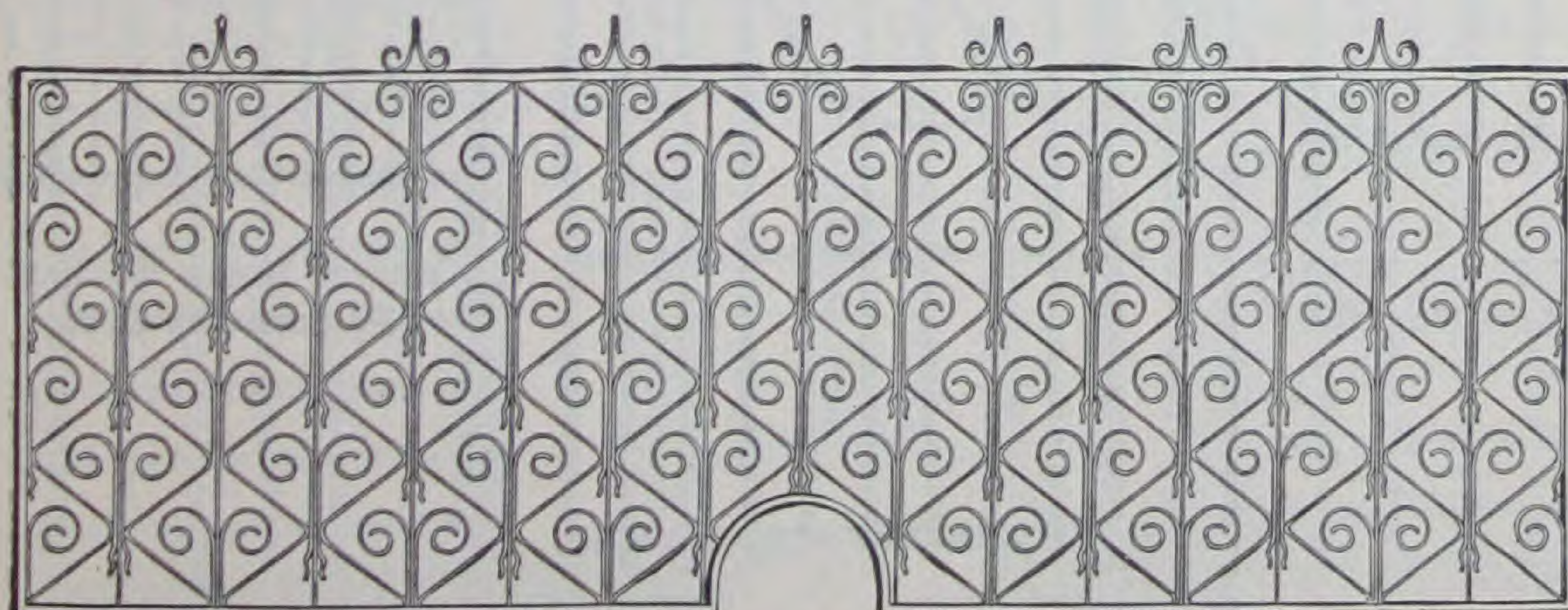
Pattern No. 109.

PATENT HALF TWIST WORK.

[Patented October 20th, 1885.]

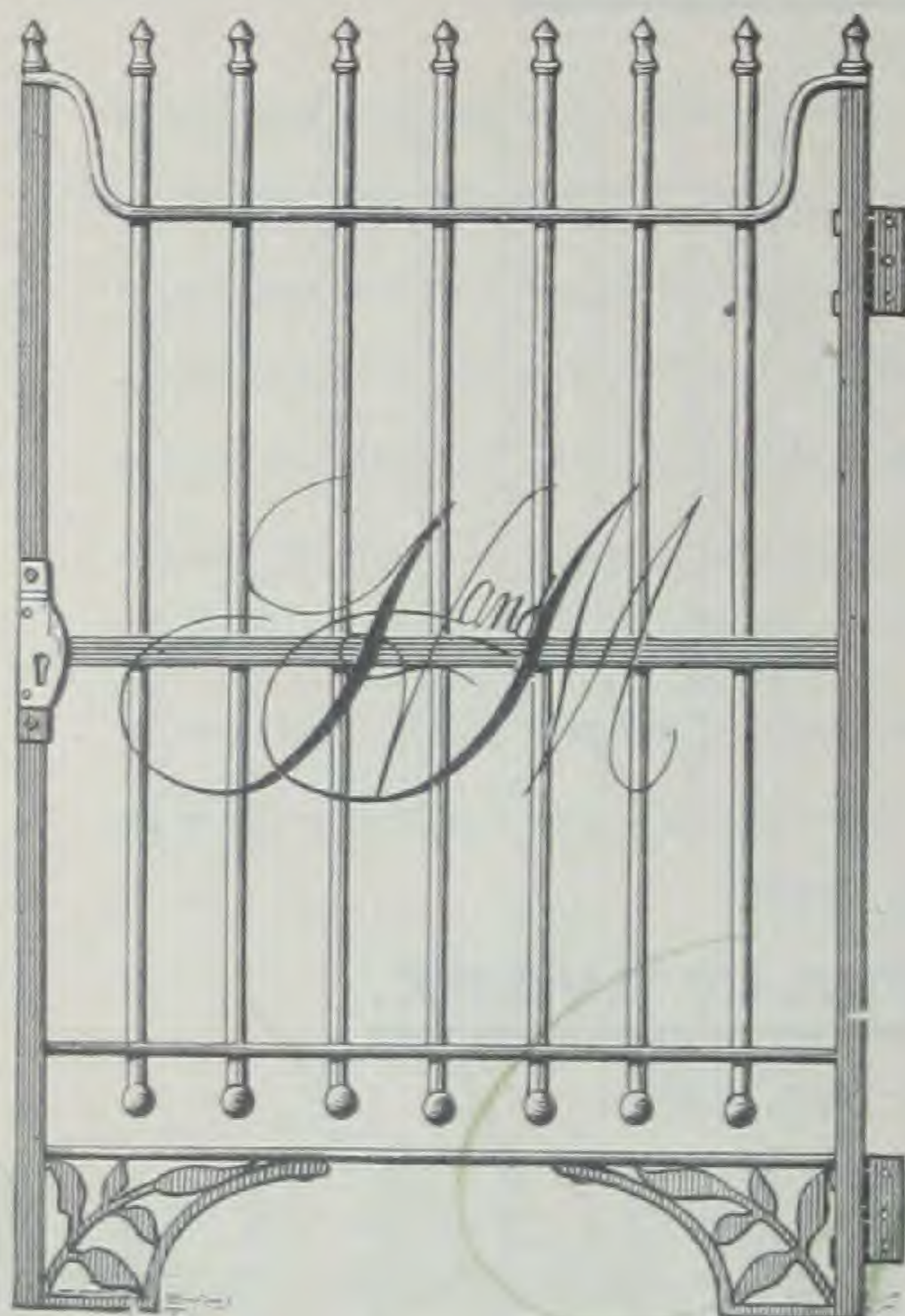


Pattern No. 104.



Pattern No. 105.

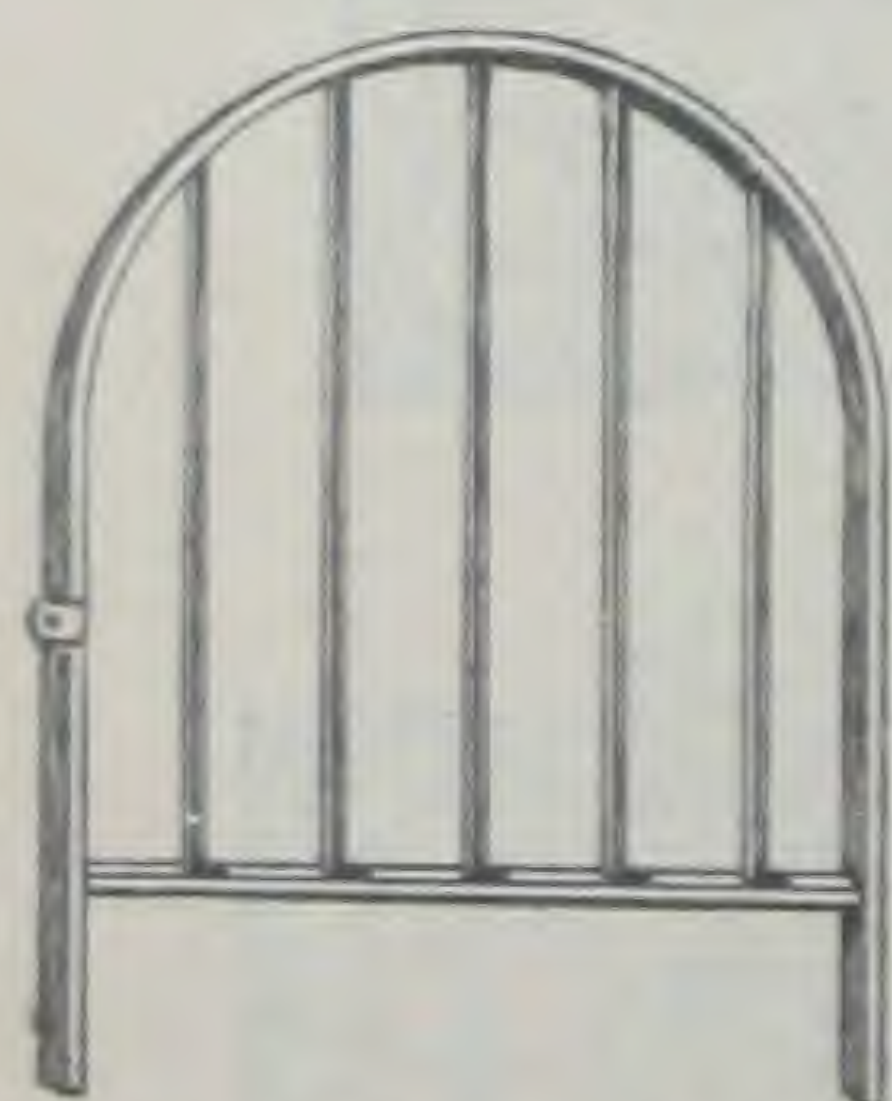
BRASS BANK COUNTER WORK.—Continued.



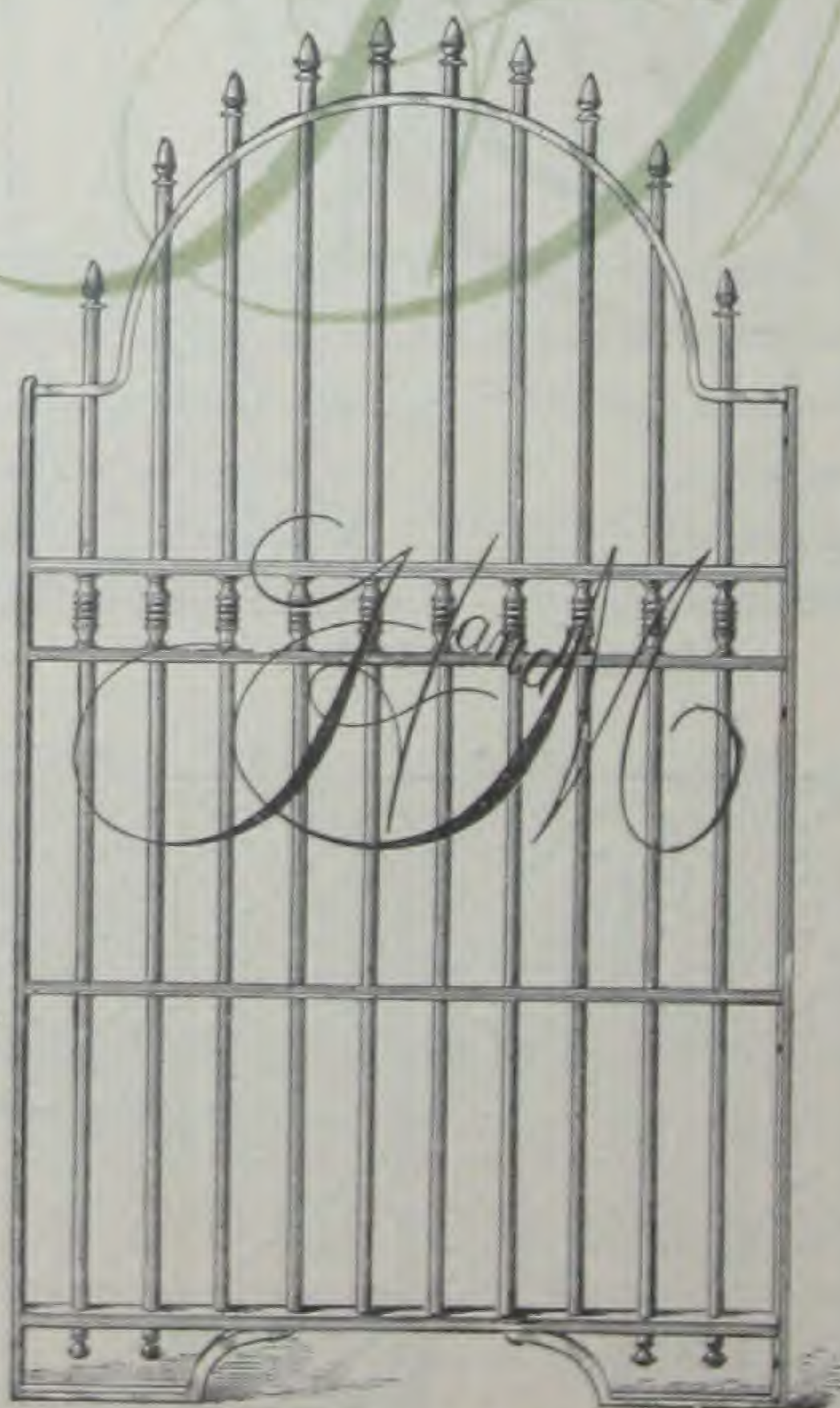
Pattern No. 102.



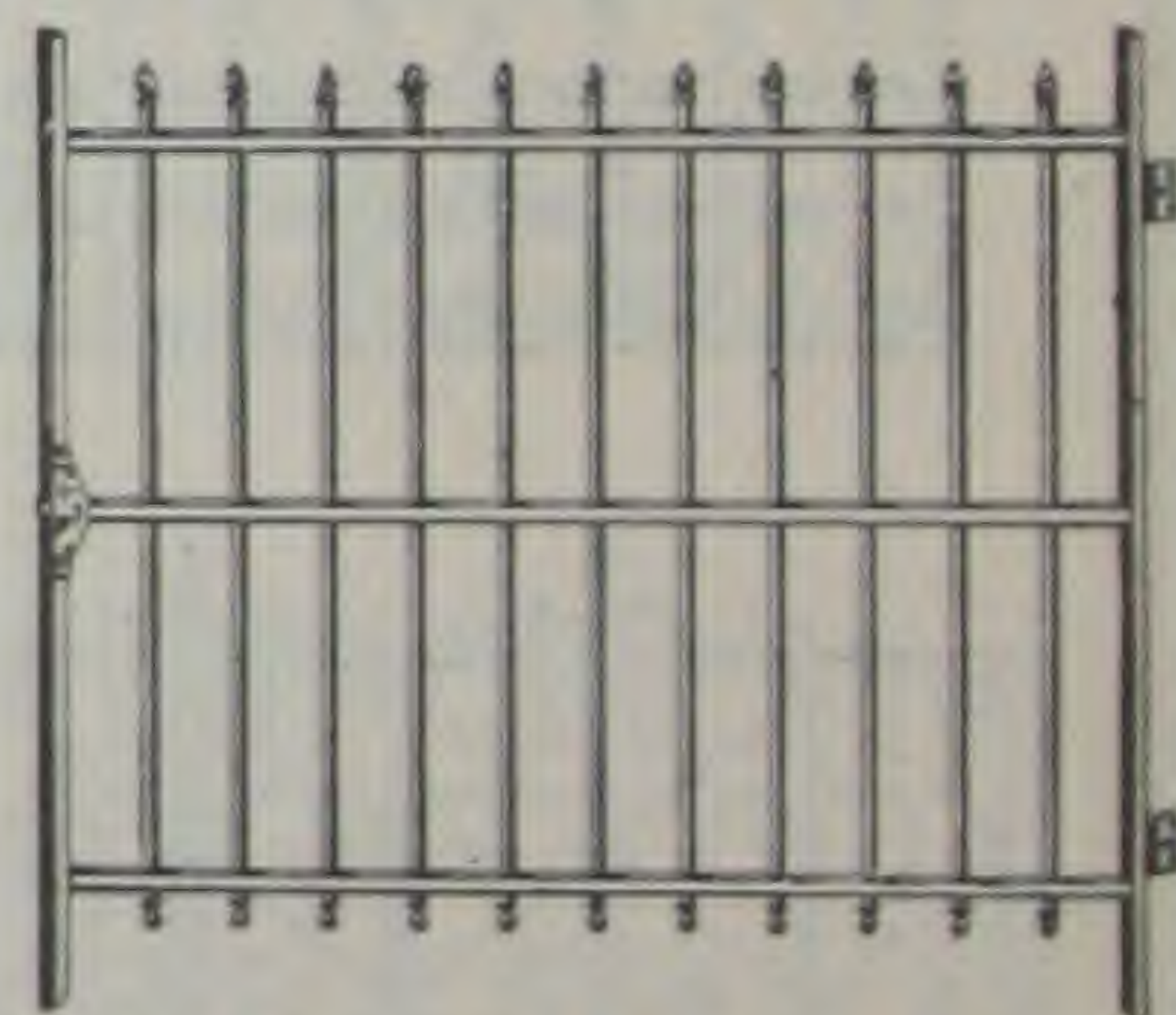
Pattern No. 103.



Round Brass Wicket.
Pattern No. 109.

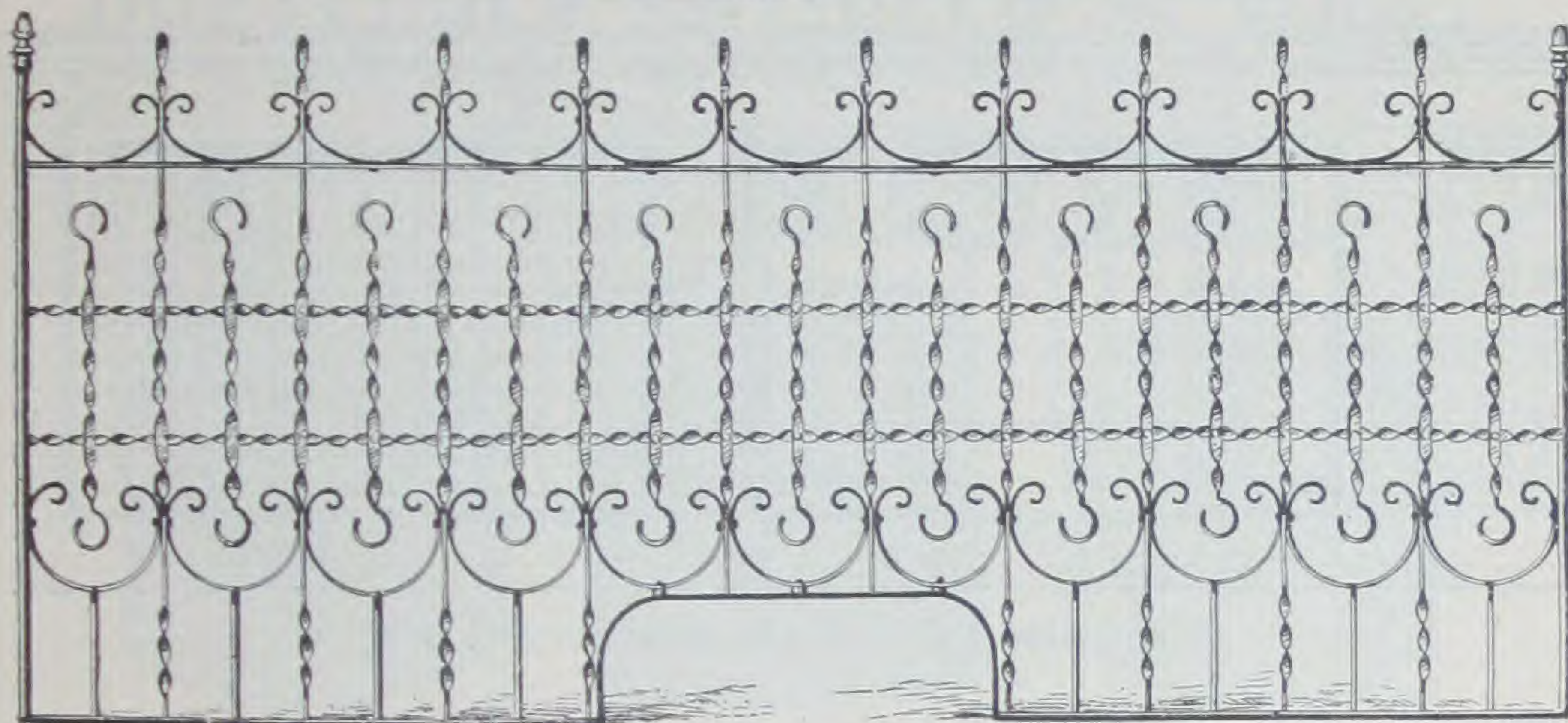


Pattern No. 101.

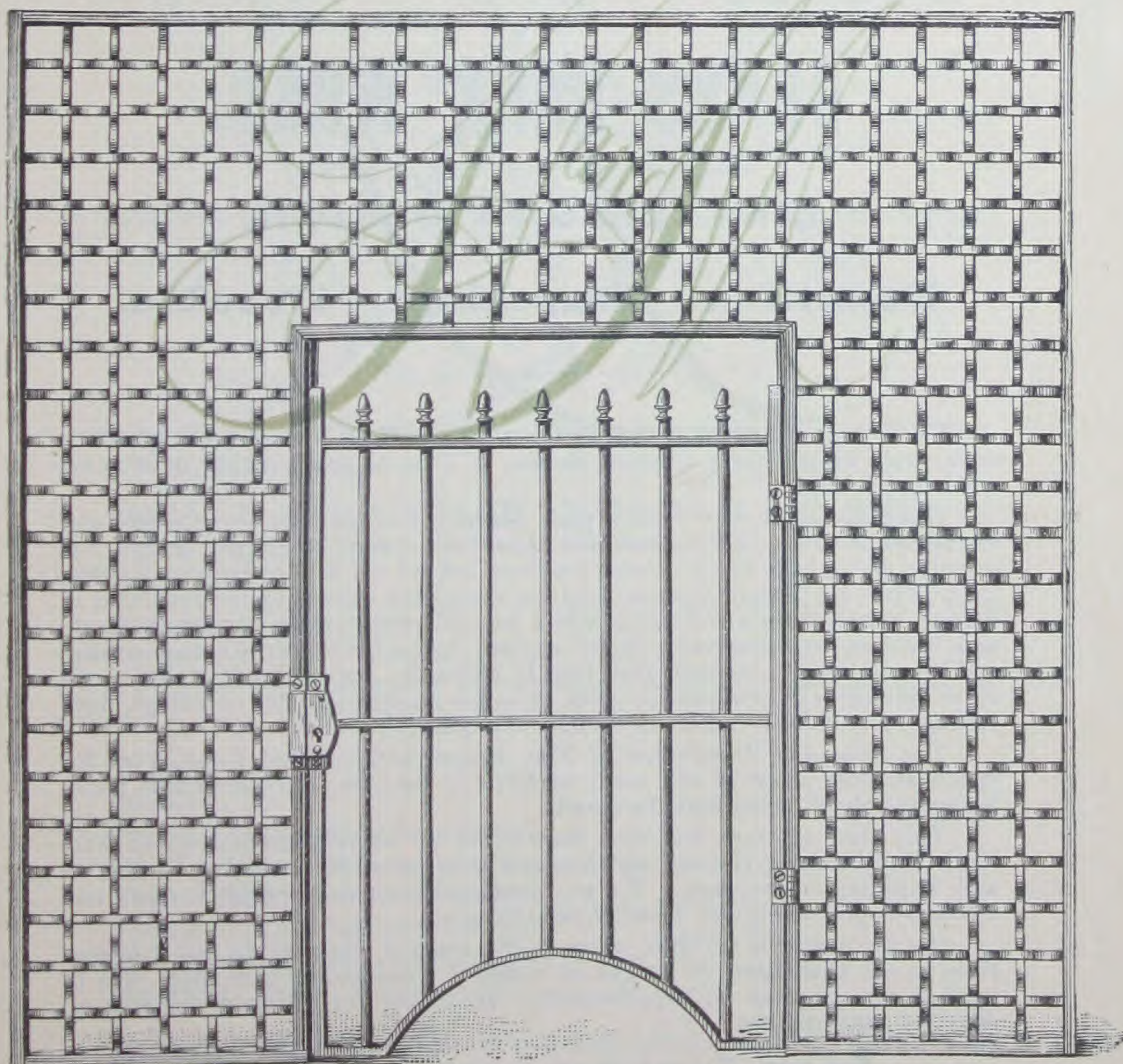


Round Brass Wicket.
Pattern No. 110.

BRASS BANK COUNTER WORK.—Continued.

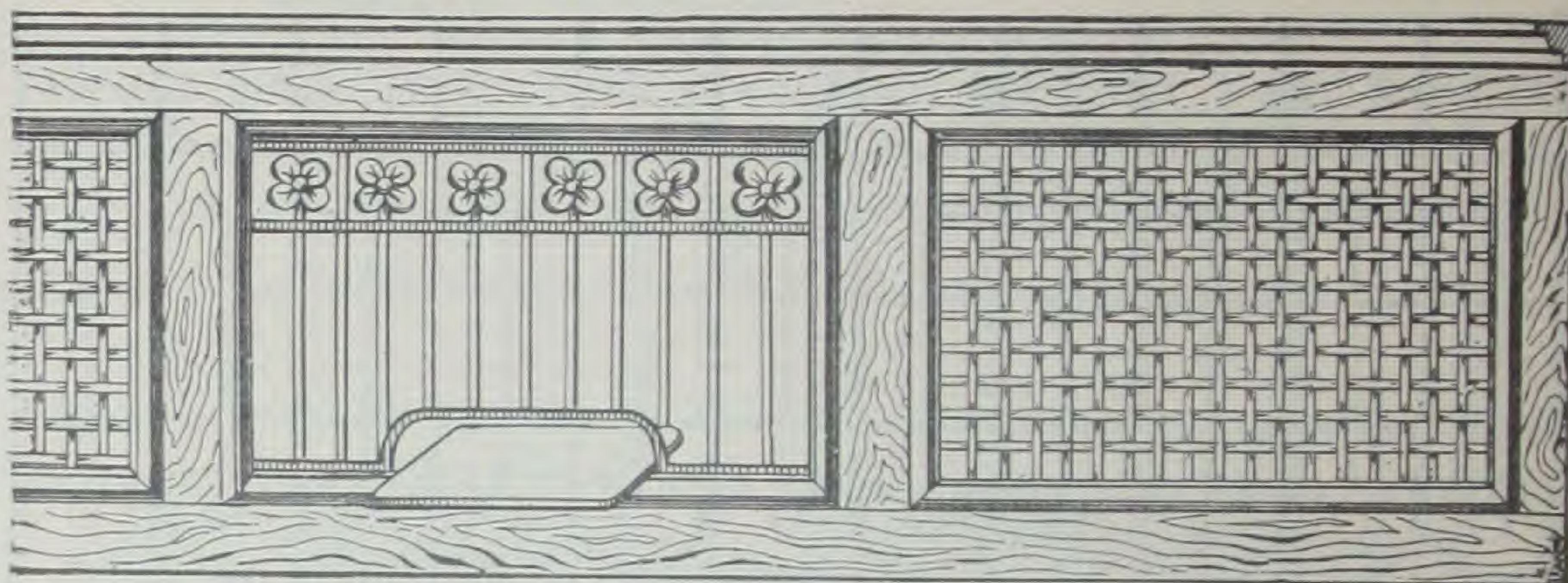


Twisted Brass Bank Counter Work, Pattern No. 107



Flat Brass Bank Counter Work, with Round Brass Wicket, Pattern No. 108.

BRASS BANK COUNTER WORK.—Continued.



Flat Brass Panel Work, Pattern No. 106.

BRASS BANK WORK.

LIMITLESS IN DESIGN.

Beautiful. Imposing. Durable.

Upon page 99 we illustrate the new Patent Half Twist Work, which is made from either Brass, Copper, Bronze or Iron, in great variety of style of mesh and strength.

It is made on an entirely new plan, consisting of flat wire set edgewise and interlaced or woven, giving new and beautiful patterns of elegant design. It permits, also, a very much better view from behind the desk or bank inclosures, as the wires are placed edgewise, and the annoyance caused by the reflection of rays of light is thus avoided. It fills a long-felt want on the part of architects and builders for a new and a useful pattern, being both beautiful and strong; and it is destined to be, and even now is, a favorite for all kinds of bank and office railings, elevator guards, gates, window guards, register coverings, desk railings, vestibule door guards, fanlight coverings, etc., etc.

The foregoing illustrations of Flat, Round and Twisted Brass Work for Banks are only a few of the many varieties of patterns into which this metal is susceptible of being manufactured.

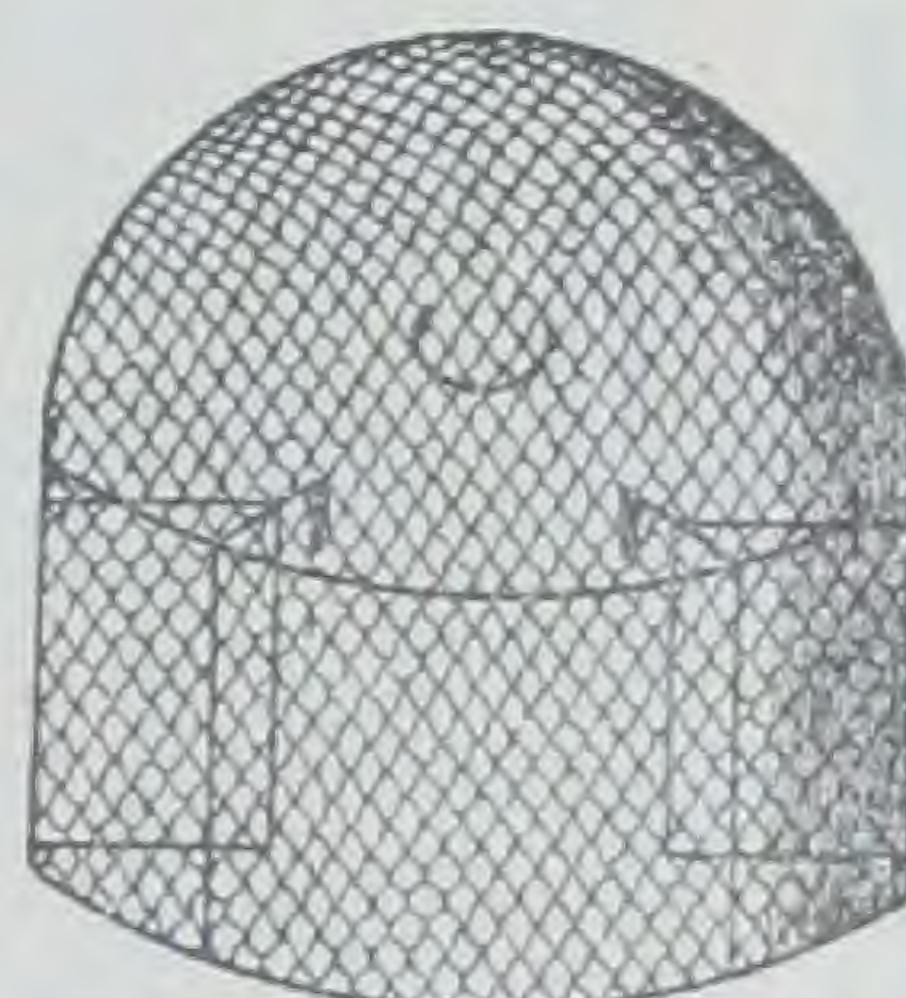
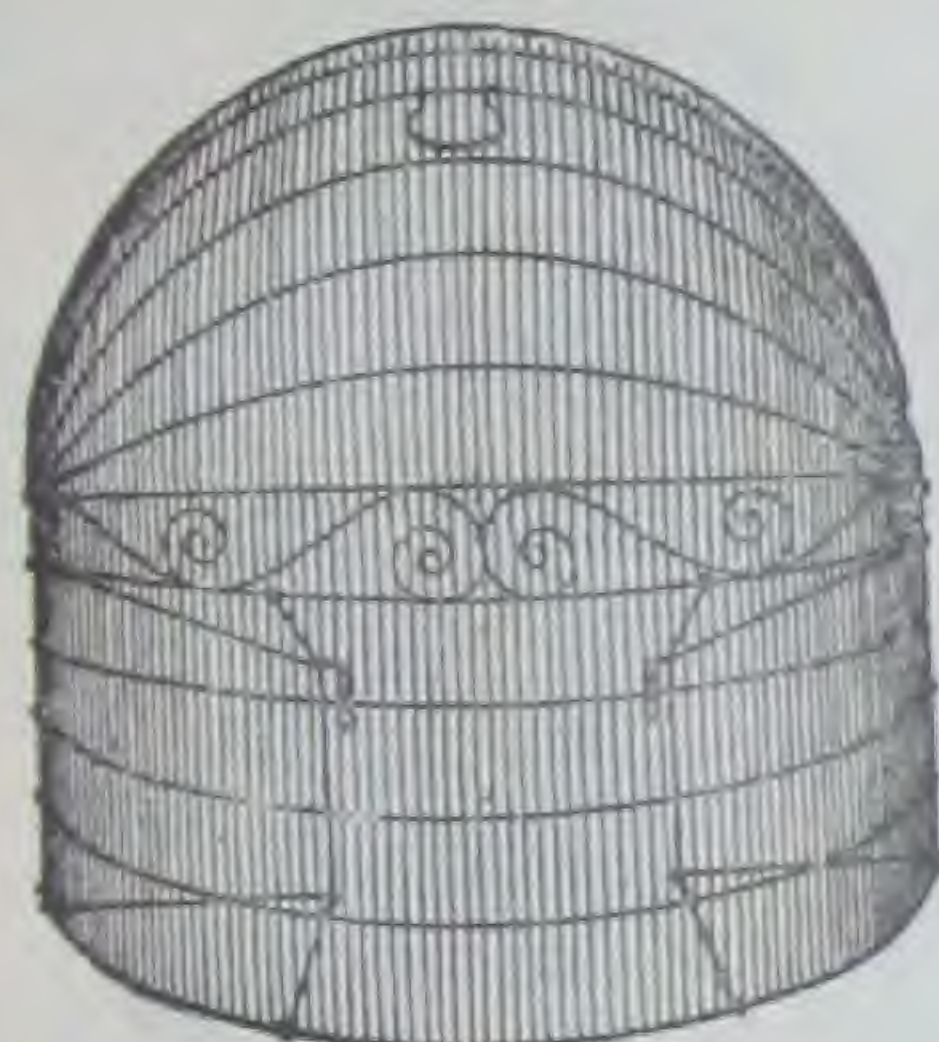
This class of work has been introduced by us very extensively in New York City Banking Houses, and has met with great favor, owing to its rich and imposing appearance. We are prepared to submit special designs and estimates upon receipt of detail of requirements.

We are unable to publish prices on this class of work, as we find it impossible to set a standard of weight of material, distances of bars apart, size of meshes, etc., to meet all requirements. In asking for estimate, mention all detail of surroundings.

Prices Furnished upon Application.

HOUSEHOLD ARTICLES IN WIRE.

NURSERY FENDERS AND SPARK GUARDS.



Laced Spark Guard.
3-16 in. space mesh,
Made to order.

Square Mesh Spark Guard.
Brass Frame and Scroll.
Made to order.

Diamond Spark Guard.
 $\frac{1}{2} \times \frac{3}{4}$ in. space mesh.
 Carried in stock of Tinned
 Wire only.

TINNED WIRE SPARK GUARDS.

Diamond Mesh, Dome Top.

Carried in stock in the following sizes :

14 inches wide by 16 inches high by 4 inches deep.	\$12 00	per dozen.
16 " " " 18 " " " 5 " " "	13 00	" " "
18 " " " 21 " " " 5 " " "	15 00	" " "
20 " " " 23 " " " 6 " " "	18 00	" " "
22 " " " 25 " " " 6 " " "	24 00	" " "
24 " " " 26 " " " 6 $\frac{1}{2}$ " " "	30 00	" " "

Discount.

LACED WORK SPARK GUARDS, of Brass, Tinned or Cop-
pered Wire, made to order.

SQUARE MESH SPARK GUARDS, in Brass or Japanned Iron, with brass frames and ornaments; made to order. Prices on application.

Owing to the great variety in sizes and shapes of fireplaces, we are obliged to make many Spark Guards and Fenders to order. The directions received are often indefinitely expressed, and we would therefore suggest to those ordering this line of goods to mention the following particulars :

Width.

Height.

Depth, or projection from mantel.

Hooks (if any), distance from bottom of guard.

Top—Round, Square, or French.

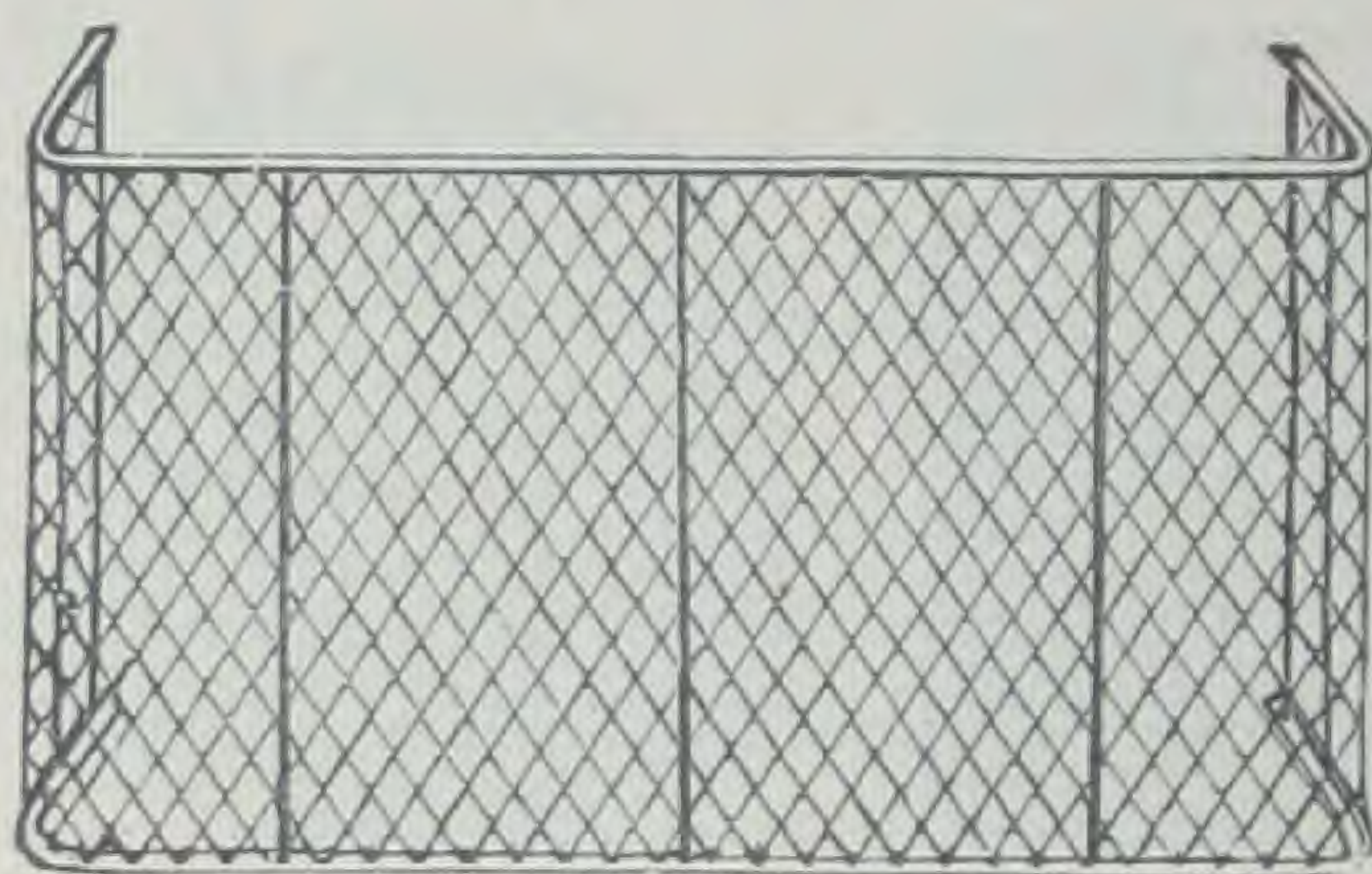
Work—Laced or Diamond Mesh.

Metal—Brass, Tinned or Coppered Wire.

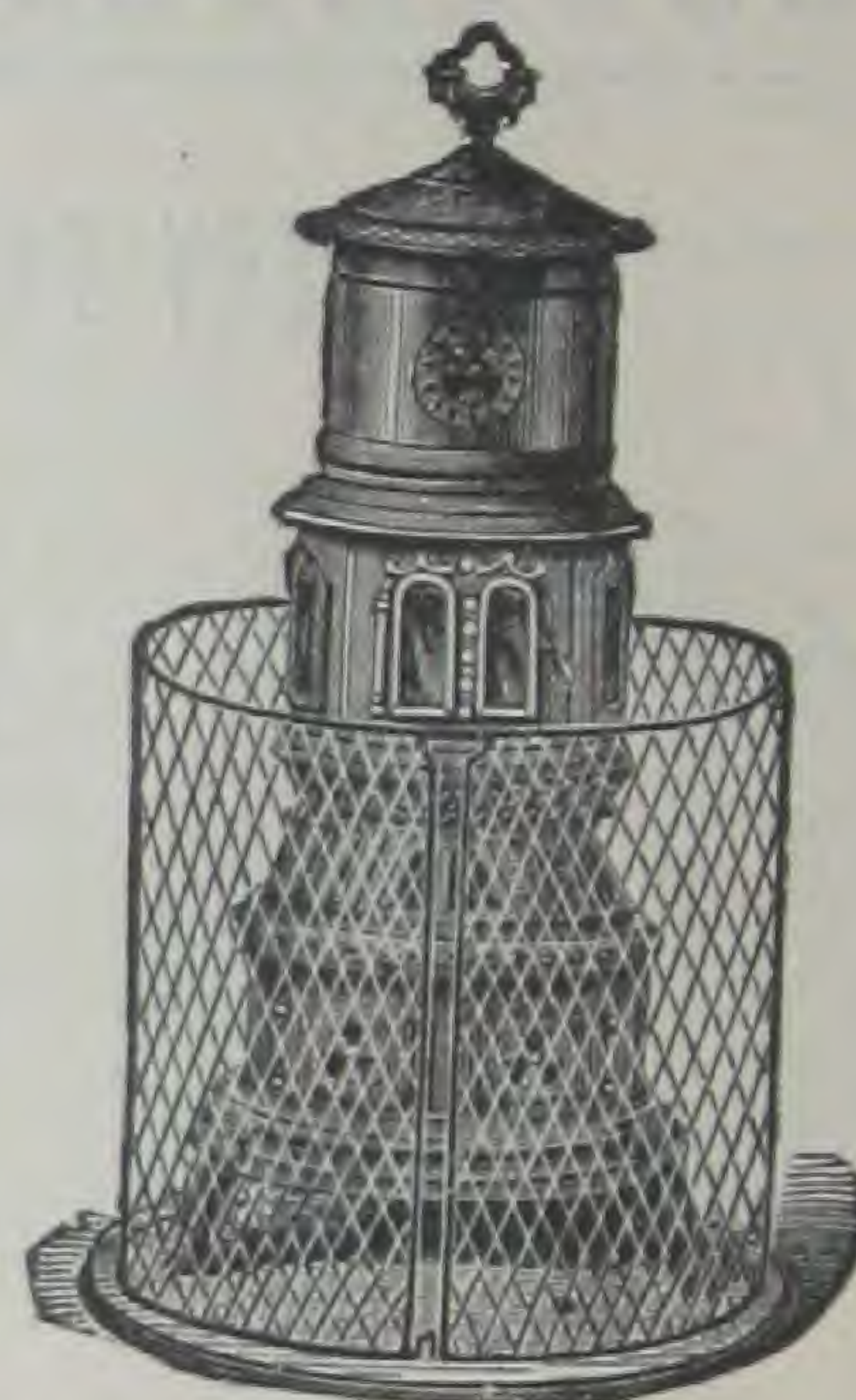
Bottom—Round or Square.

By observing these directions in ordering, greater accuracy in execution will be insured.

NURSERY FENDERS.



Rigid Nursery Fender.



Circular Nursery Fender,
with Hinges and Clasp.

NURSERY FENDERS.

12 inches high, Brass Top	\$0 55	per running foot.
18 " " " "	65	" " "
24 " " " "	75	" " "
30 " " " "	1 00	" " "
36 " " " "	1 25	" " "

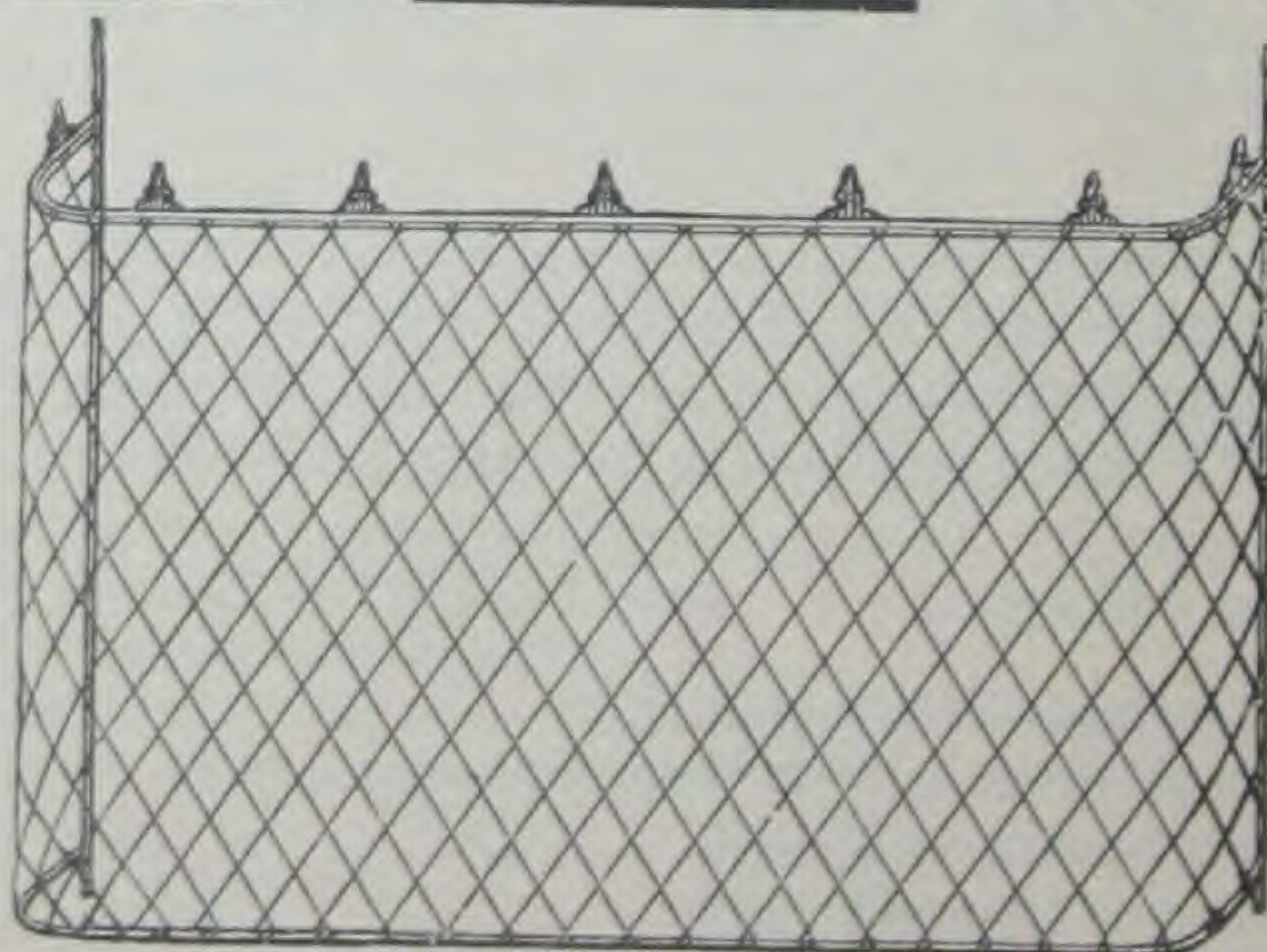
FOLDING FENDERS.

24 inches high, Brass Top	\$1 00	per running foot.
30 " " " "	1 25	" " "
36 " " " "	1 50	" " "

Discount,

Fenders made all Brass, treble the price of the Brass Top.
All made to order.

NURSERY WINDOW GUARDS.

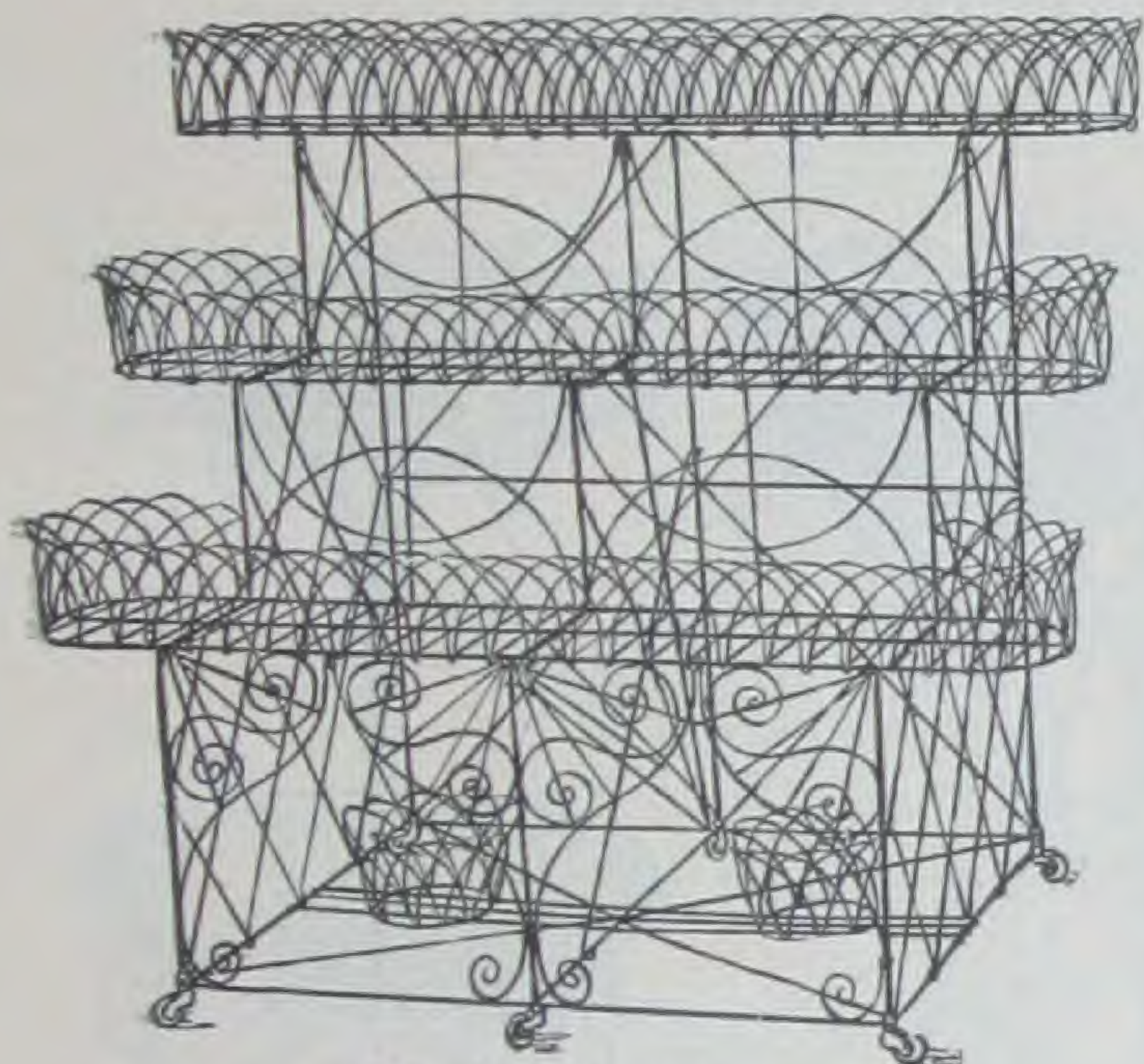


Prices of Nursery Window Guard for Private Dwellings.

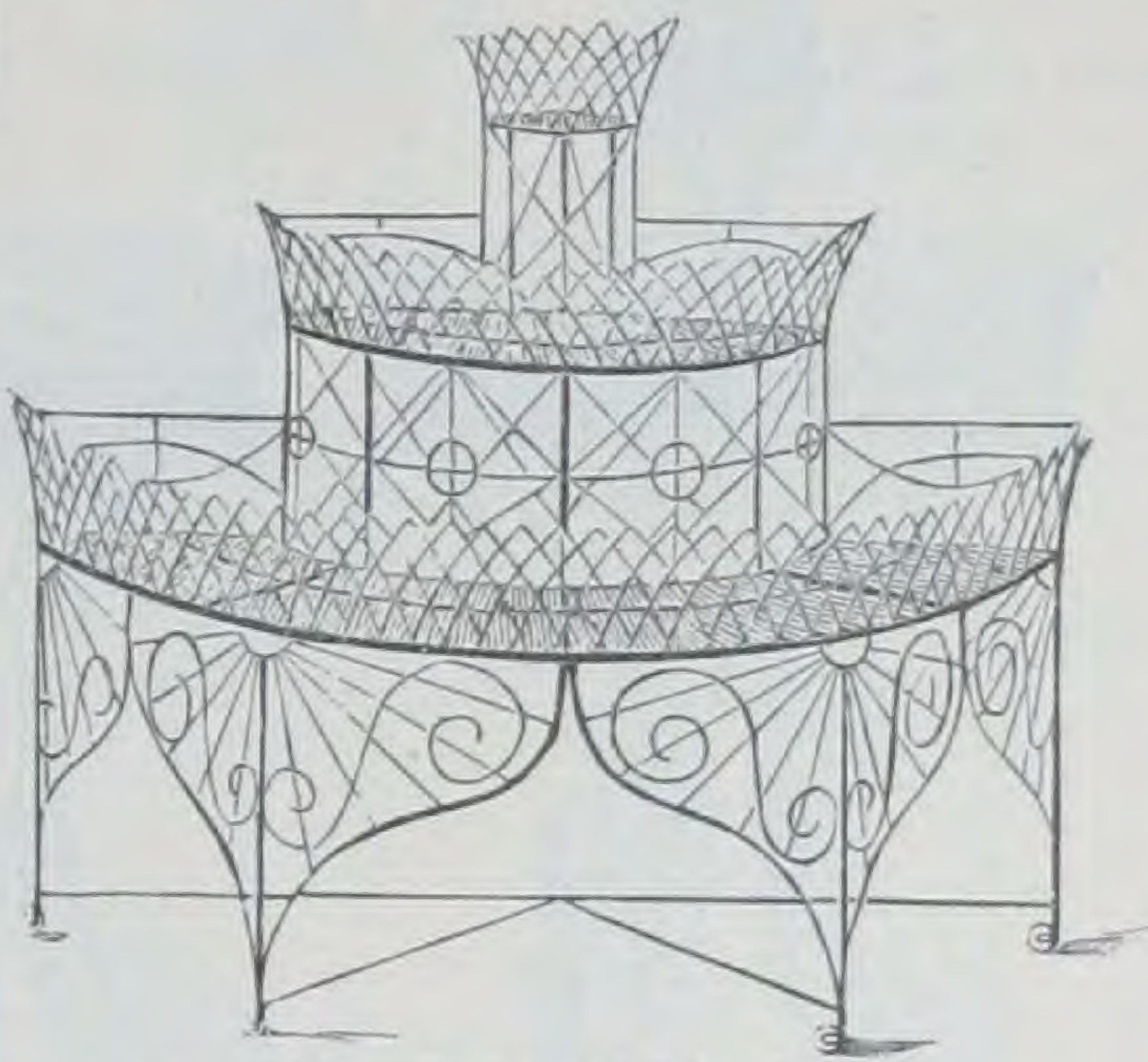
11½ inch diamond, ½ inch wire, Round Frame	35c.	per square foot.
Extra for Pickets with bar	35c.	" running "
" " Rosettes	8c.	each.
" " Gilding Rosettes or Pickets	12c.	" "

Discount,

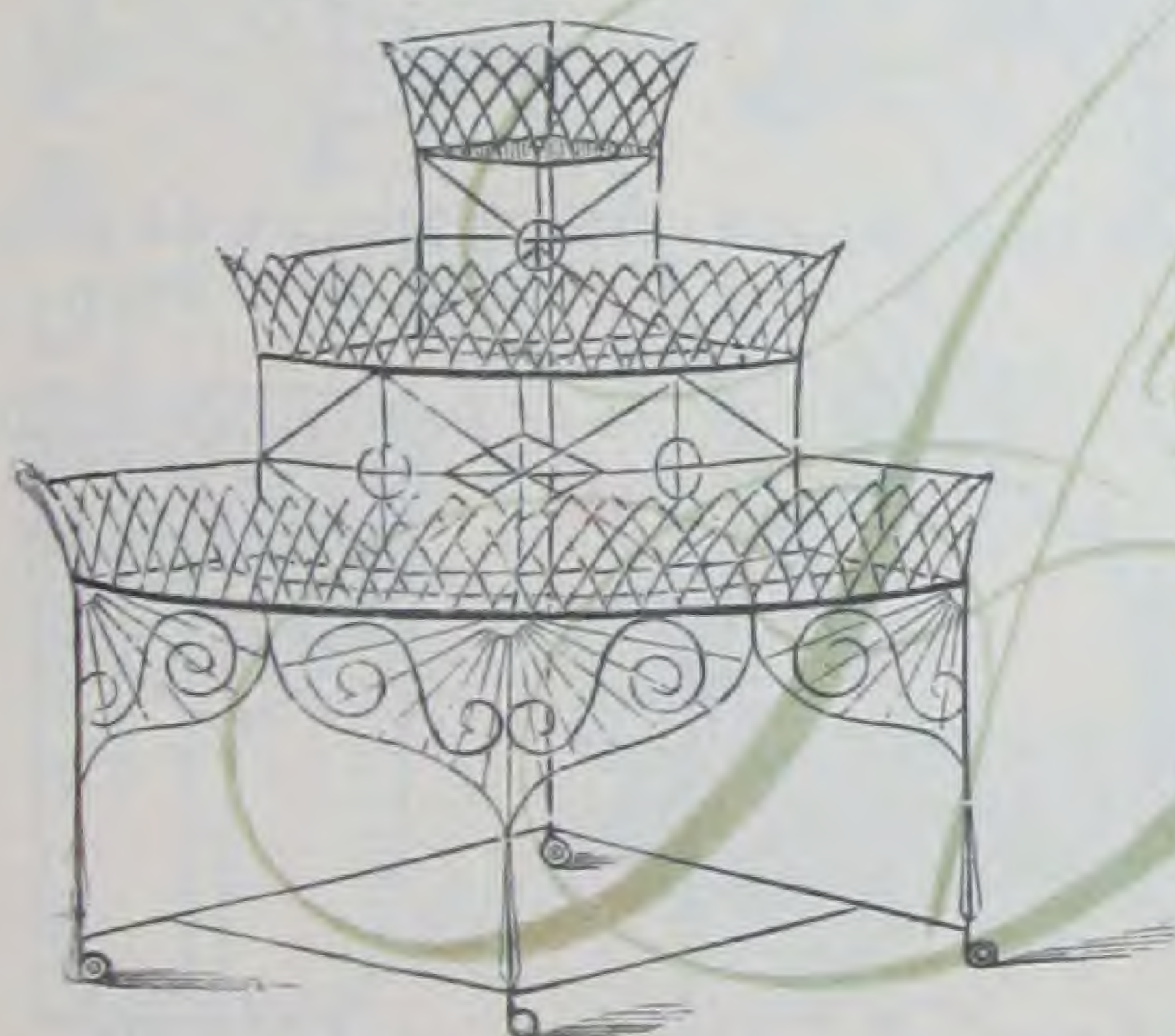
WIRE FLOWER POT STANDS.



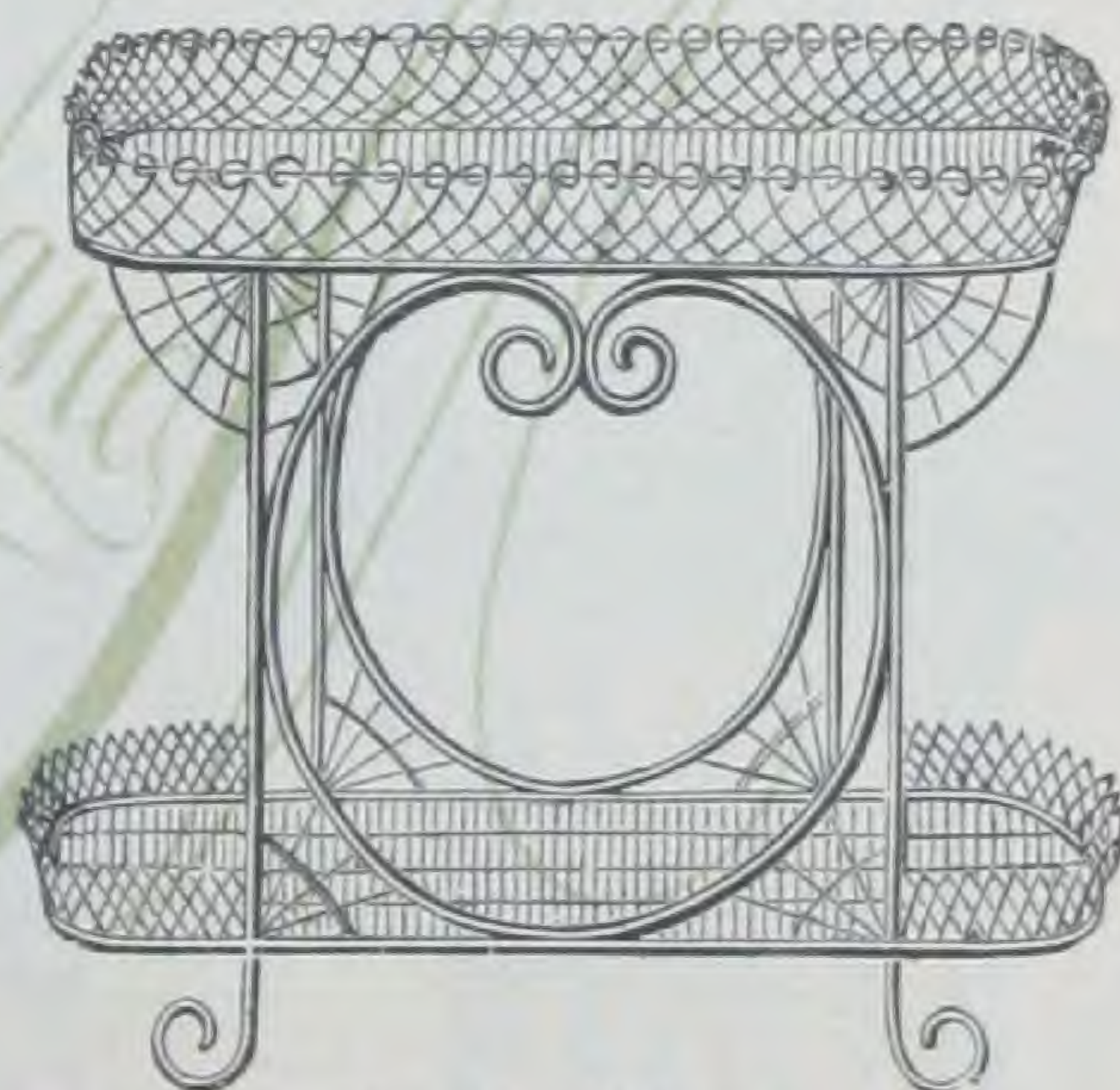
No. 1, Square.



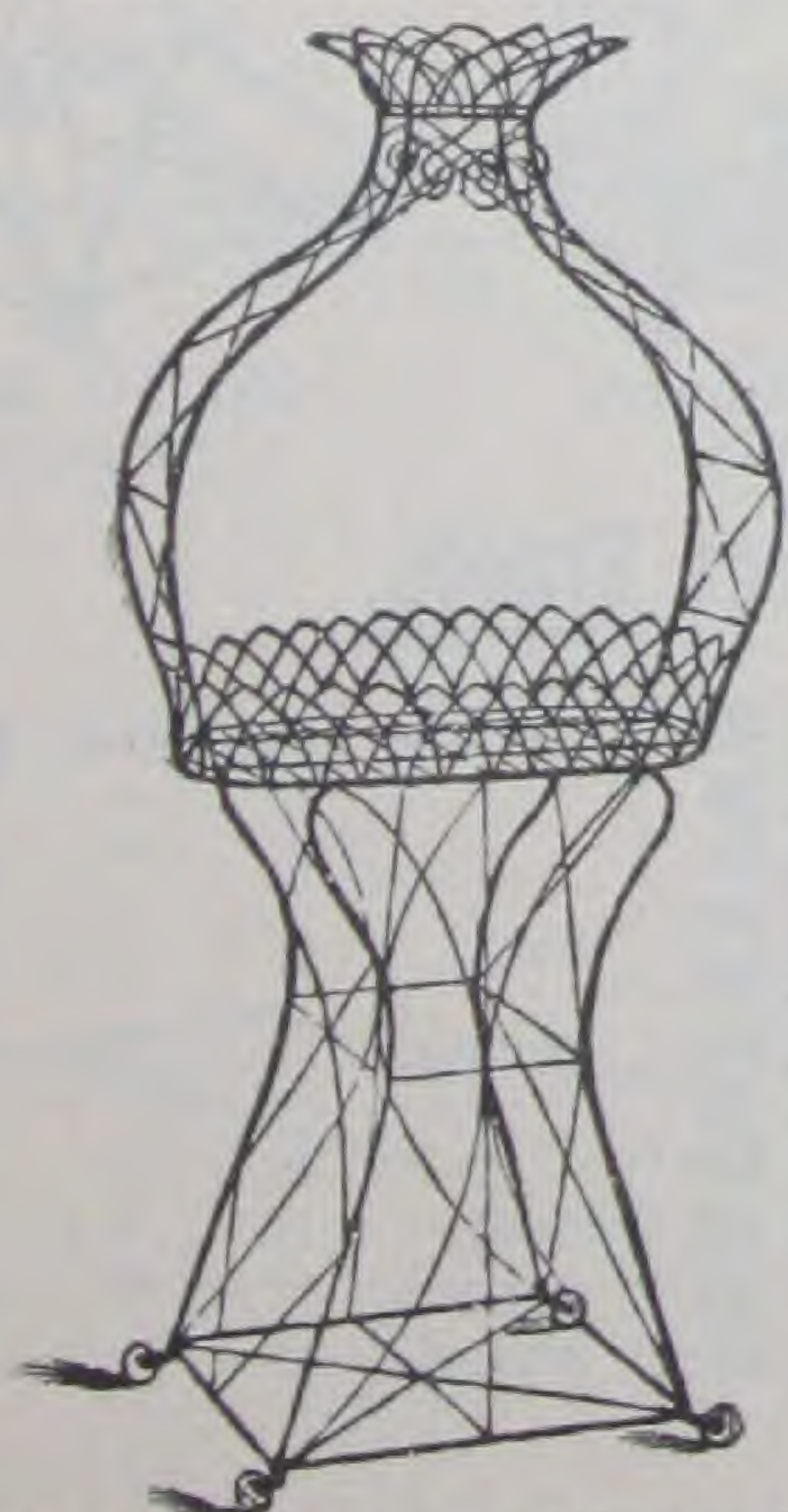
No. 2, Semi-Circle.



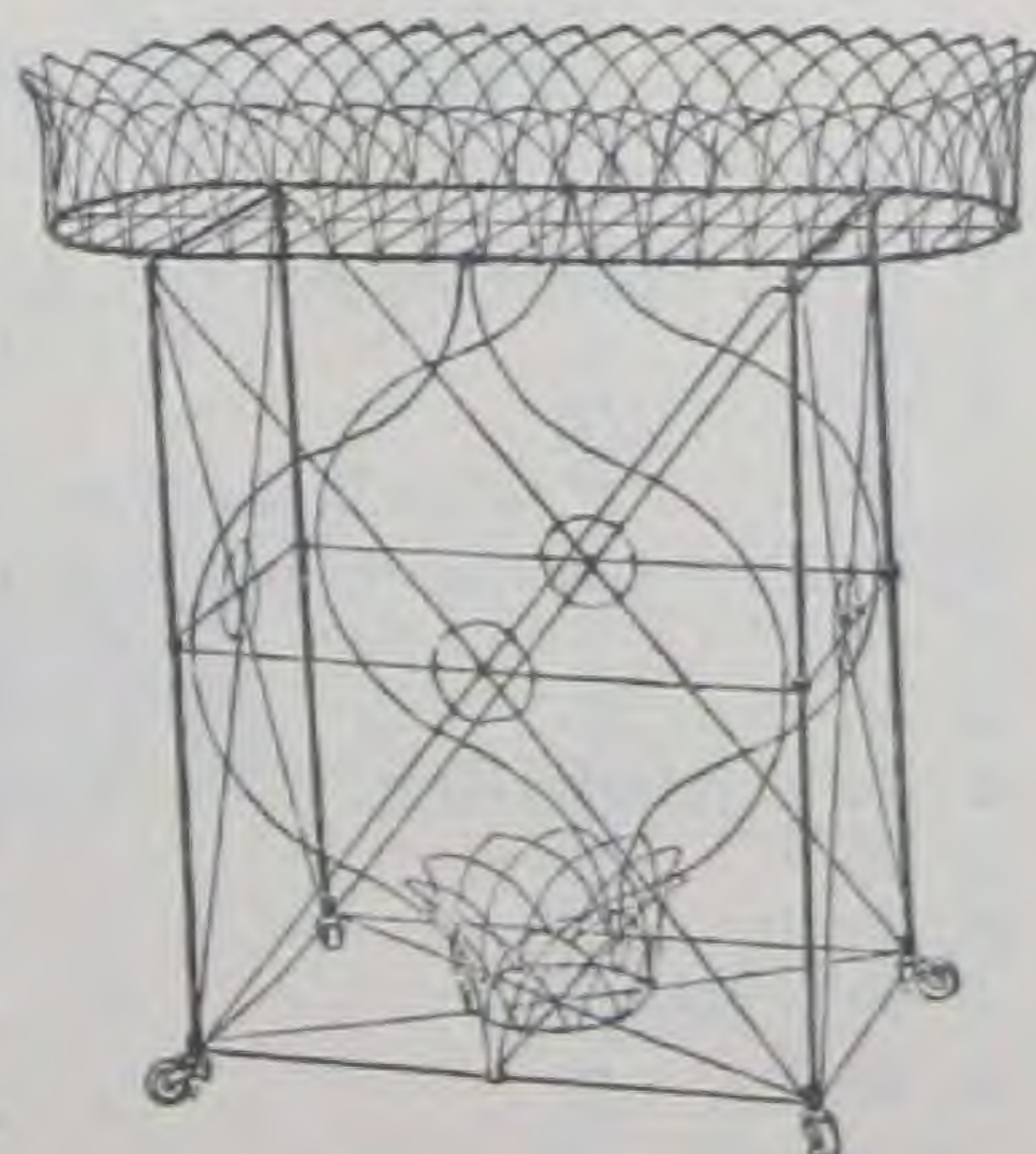
No. 3, Triangular.



No. 4, Oblong.

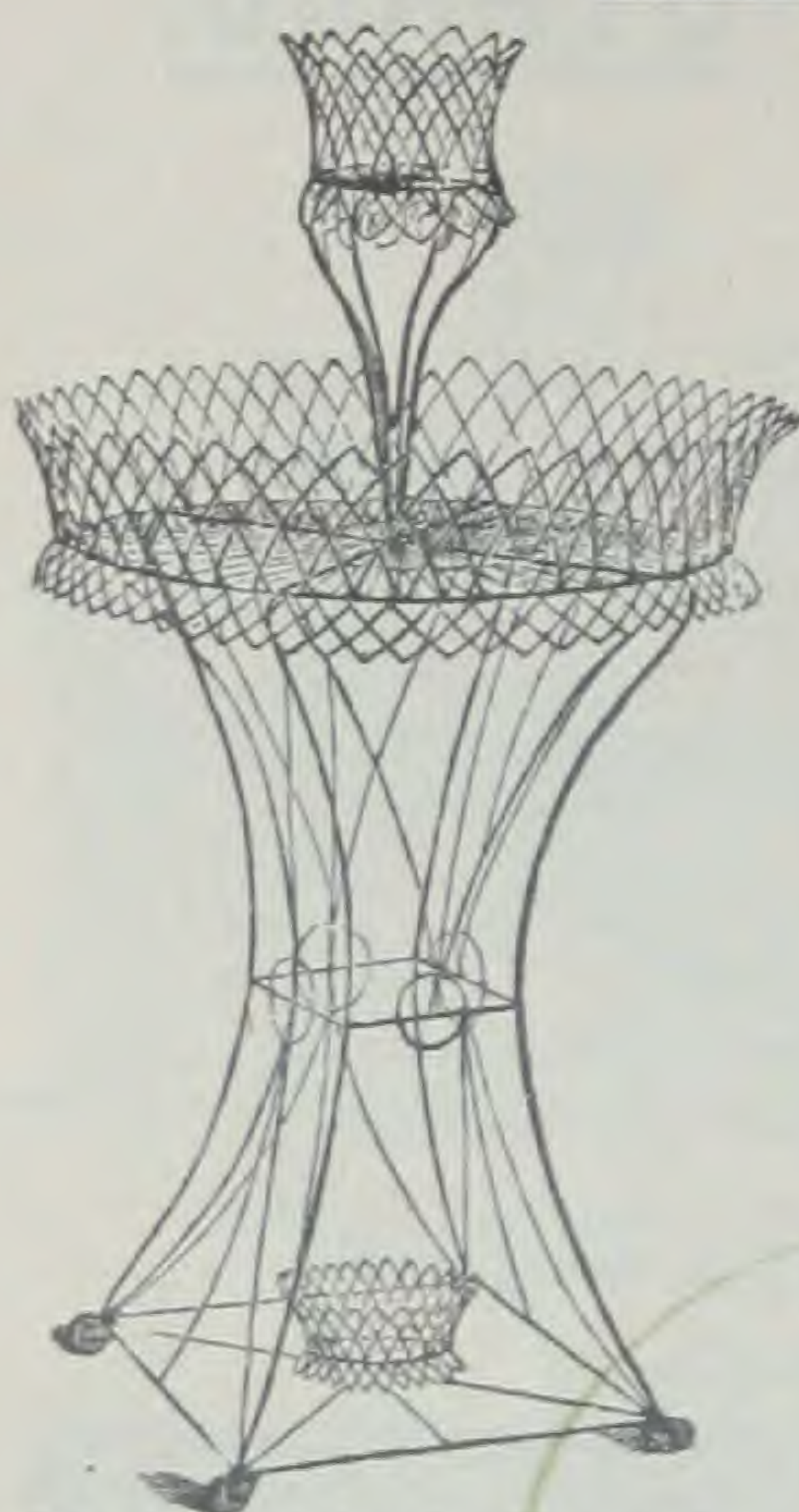


No. 5, Oblong, with Arch.

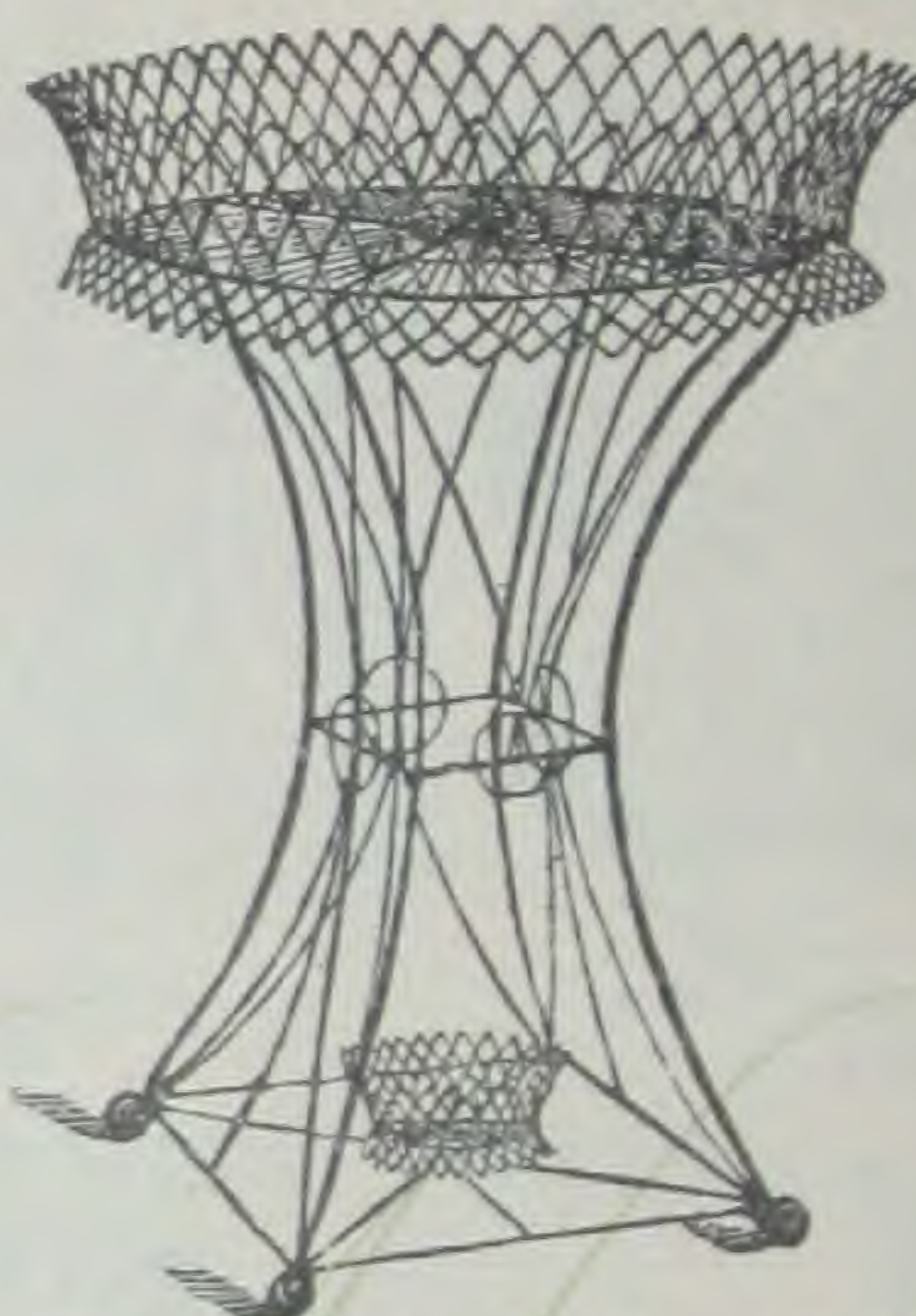


No. 6, Oblong.

WIRE FLOWER POT STANDS.—Continued.



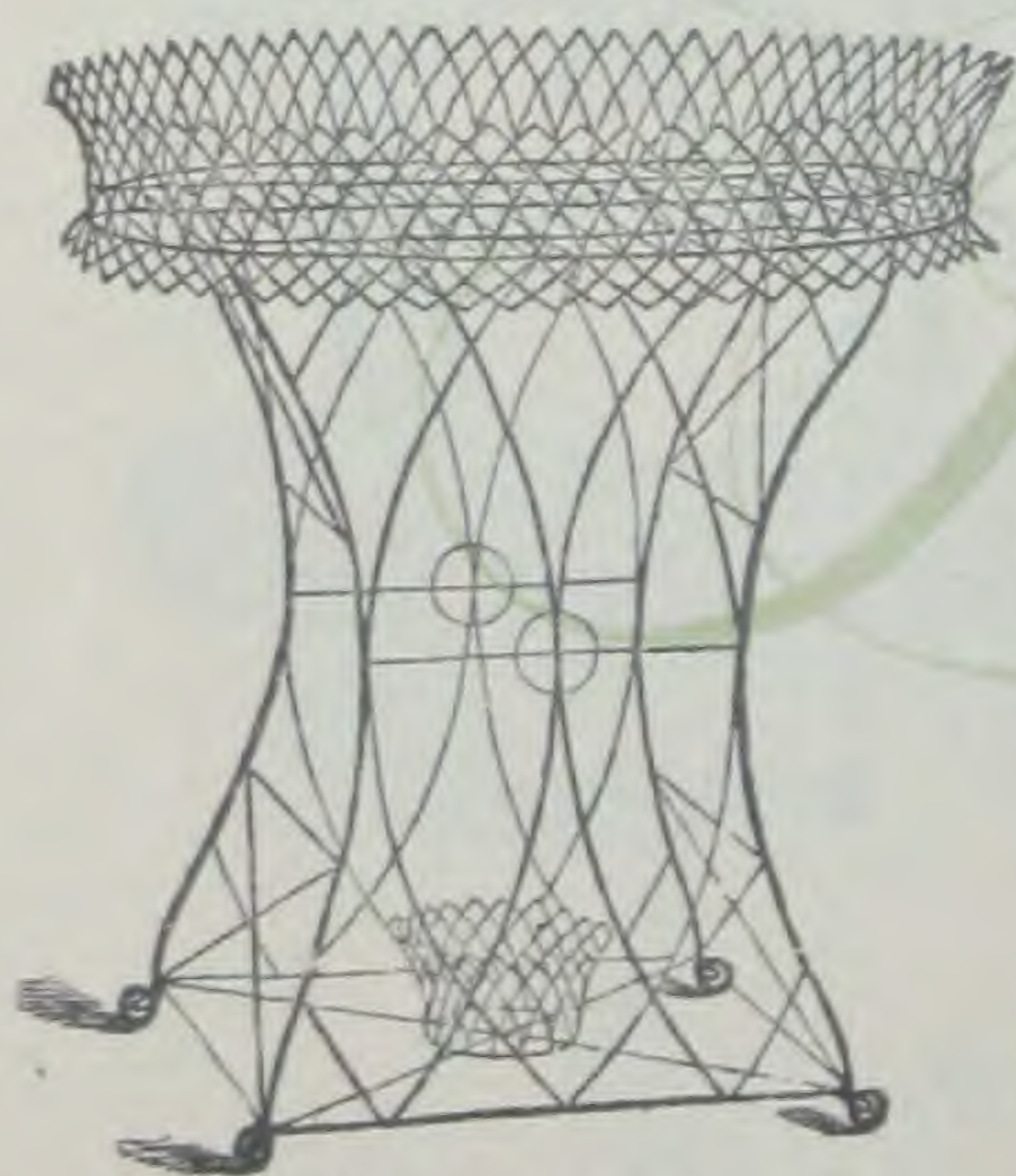
No. 7, 24 inch, Round, with Centre.



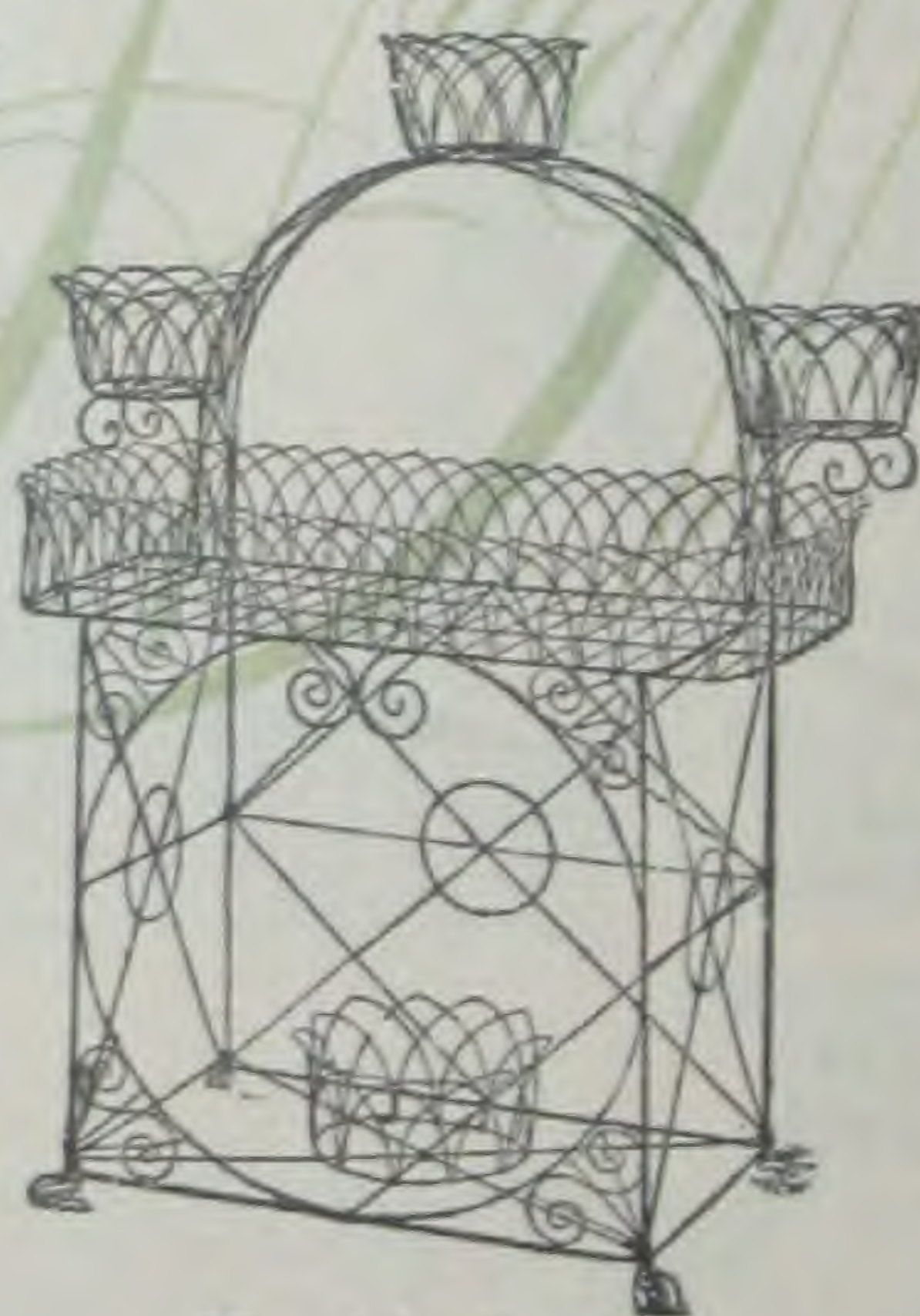
No. 8, 24 inch, Round.



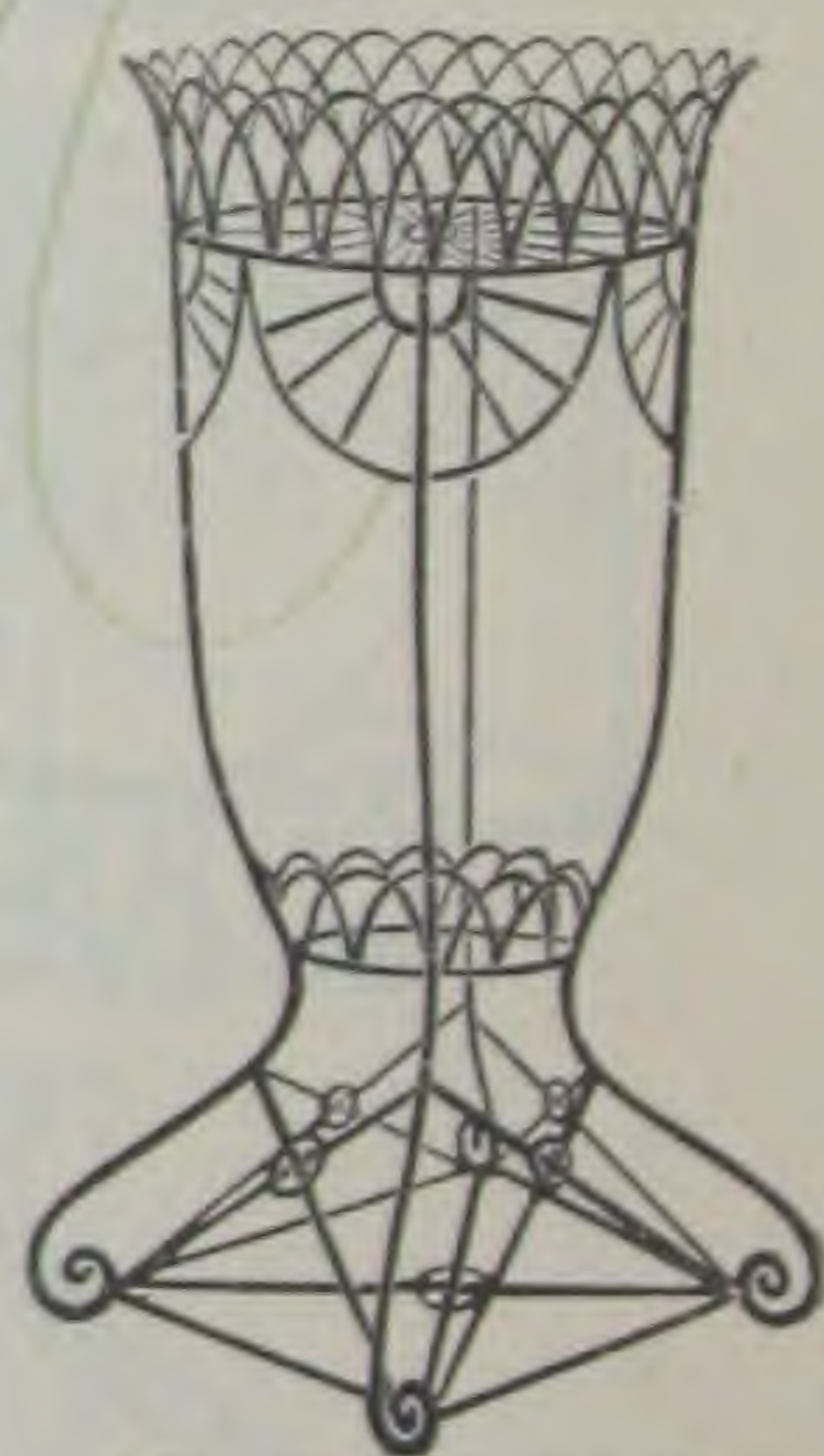
No. 9, Round, 24 inch, with Four Pots.



No. 10, Oval, 30 inch.



No. 11, Square, 33 inch.



No. 12, Round, 12 inches.

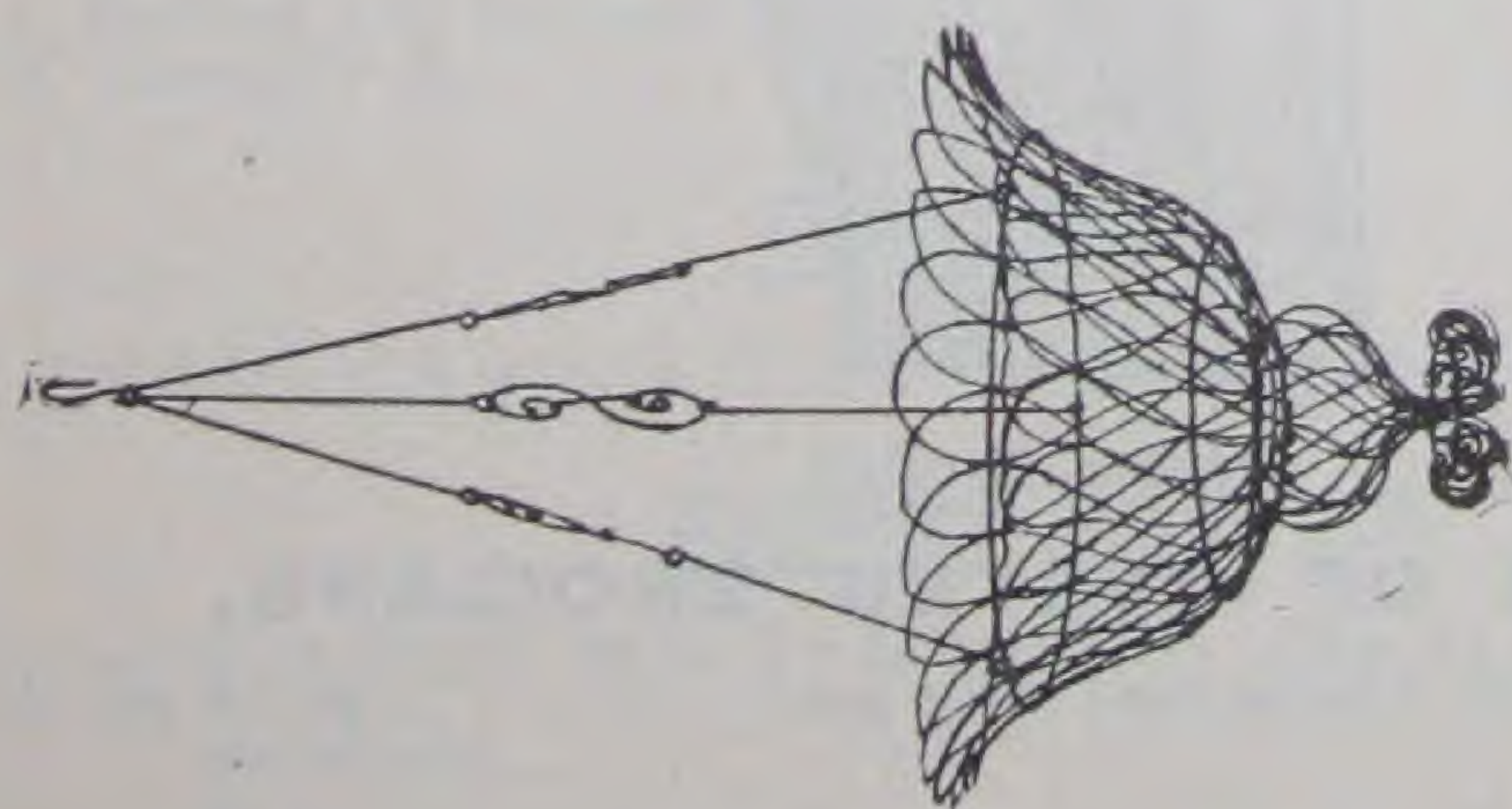
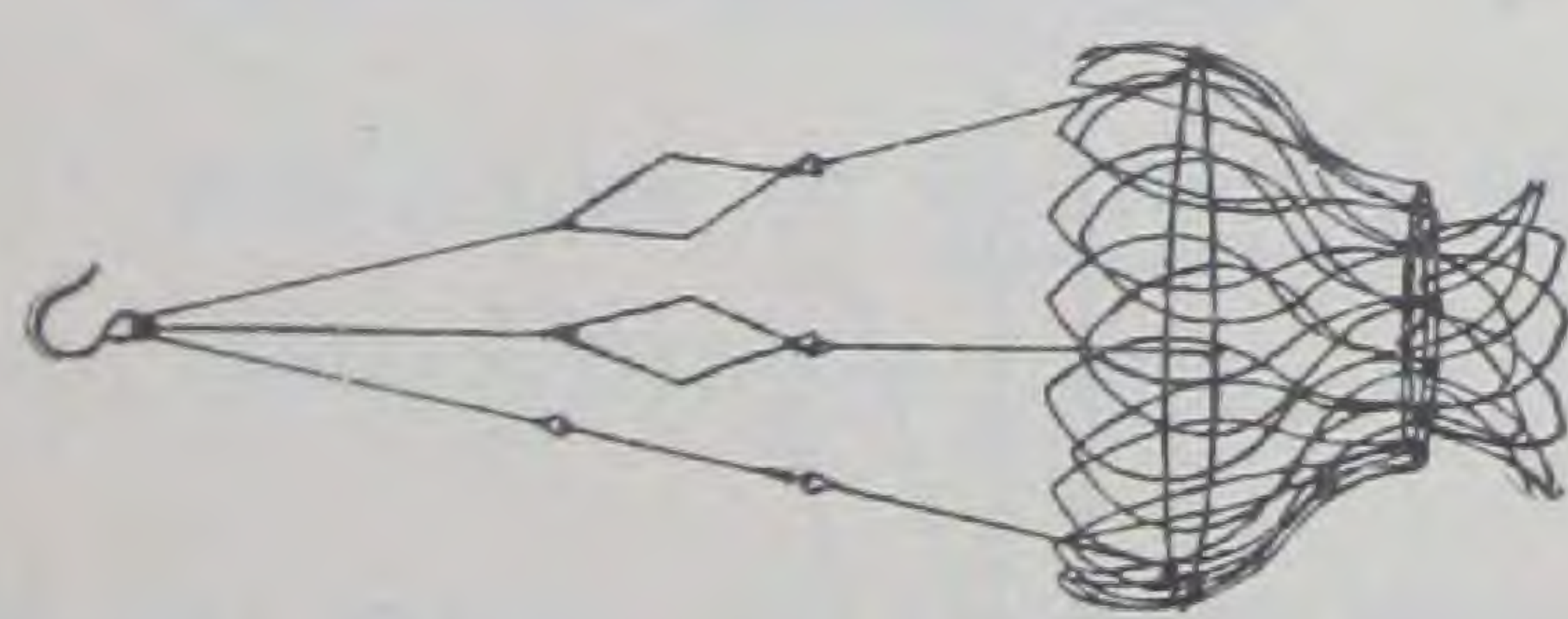




Price List of Flower Pot Stands.

No.	Size	Shape	Price	EACH.
No. 1,	48 in.	square, as per cut,	\$12 00	
" 1,	42 "	" " " " "	10 00	
" 1,	36 "	" " " " "	8 00	
" 1,	30 "	" " with 2 shelves,	6 00	
" 2,	48 "	" semic'cle, as per cut,	11 00	
" 2,	42 "	" " " " "	9 00	
" 2,	36 "	" " " " "	7 00	
" 3,	42 "	" triangular, " "	9 00	
" 3,	36 "	" " " " "	8 00	
" 3,	30 "	" " " " "	7 00	
" 4,	42 "	" oblong, " "	7 00	
" 4,	36 "	" " " " "	6 00	

Discount,

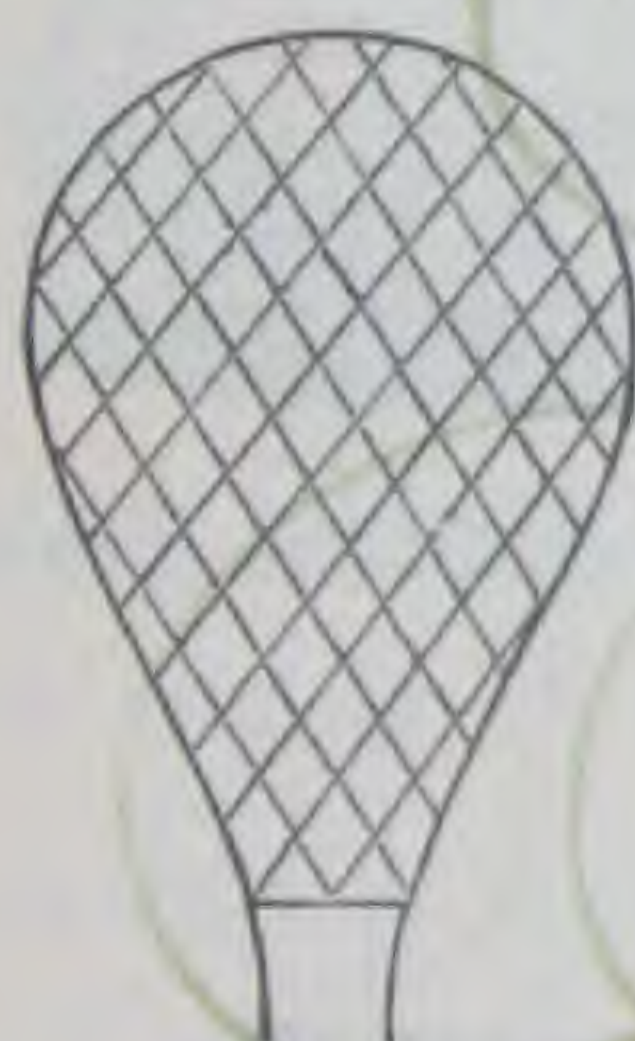
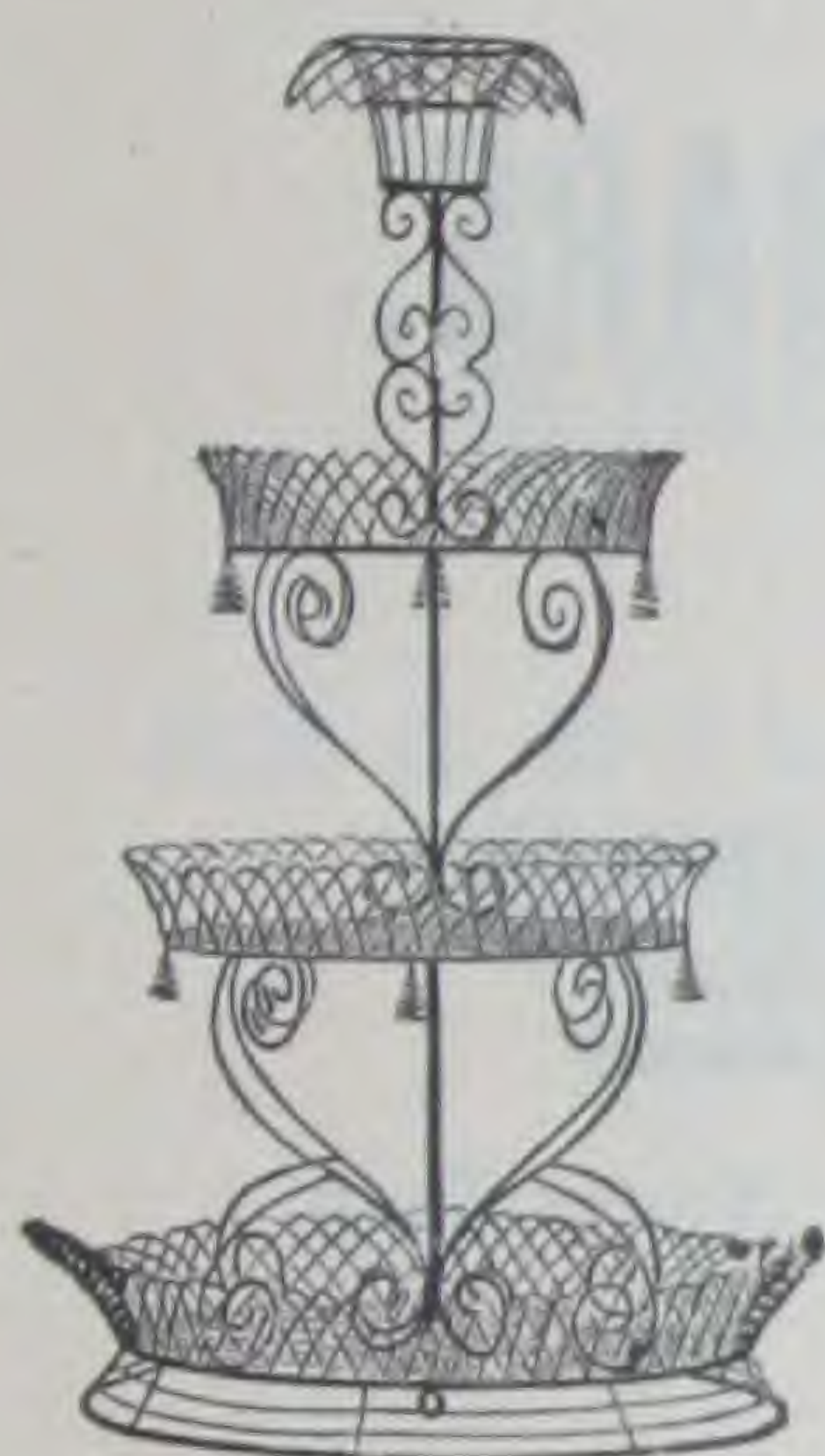
No.	Size	Shape	Price	EACH.
No. 5,	42 in.	oblong, as per cut,	\$7 00	
" 5,	36 "	" " " " "	6 00	
" 6,	42 "	" " " " "	5 00	
" 6,	36 "	" " " " "	4 00	
" 6,	30 "	" " " " "	3 00	
" 7,	24 "	round, " "	5 50	
" 8,	24 "	" " " " "	4 75	
" 9,	24 "	" " " " "	6 00	
" 10,	30 "	oval, " "	4 50	
" 11,	33 "	square, " "	6 00	
" 12,	12 "	round, " "	2 50	

MOSS OR HANCING BASKETS.

	No. 1.	No. 2.	No. 3.	No. 4.	No. 5.	No. 6.
						
No. 1	Basket, 16 inches diameter,	7 inches deep, as per cut above.	Each, \$2	00	\$22 00	per dozen.
" 2	" 10 "	6 "	" "	75	8 00	"
" 3	" 12 "	6 1/2 "	" "	55	6 00	"
" 4	" 9 "	5 "	" "	45	4 50	"
" 5	" 8 1/2 "	4 1/2 "	" "	35	3 50	"
" 6	" 7 1/2 "	4 "	" "	25	2 50	"

Made of Tinned or Coppered Wire, \$1 50 per dozen extra, net,

Discount,



Price List of Umbrella Stands.

28 inches long, holding 32 Umbrellas.....	\$7 00 each.
36 " " " 40 " 	9 00 "

Waste Paper, or Ladies' Work Basket.

No. 1, Japanned and Bronzed, as per cut.....	\$6 00 each.
“ 1, Painted and Bronzed, “	5 50 “
“ 2, Tinned Wire, “	75 “

Fruit Stands.

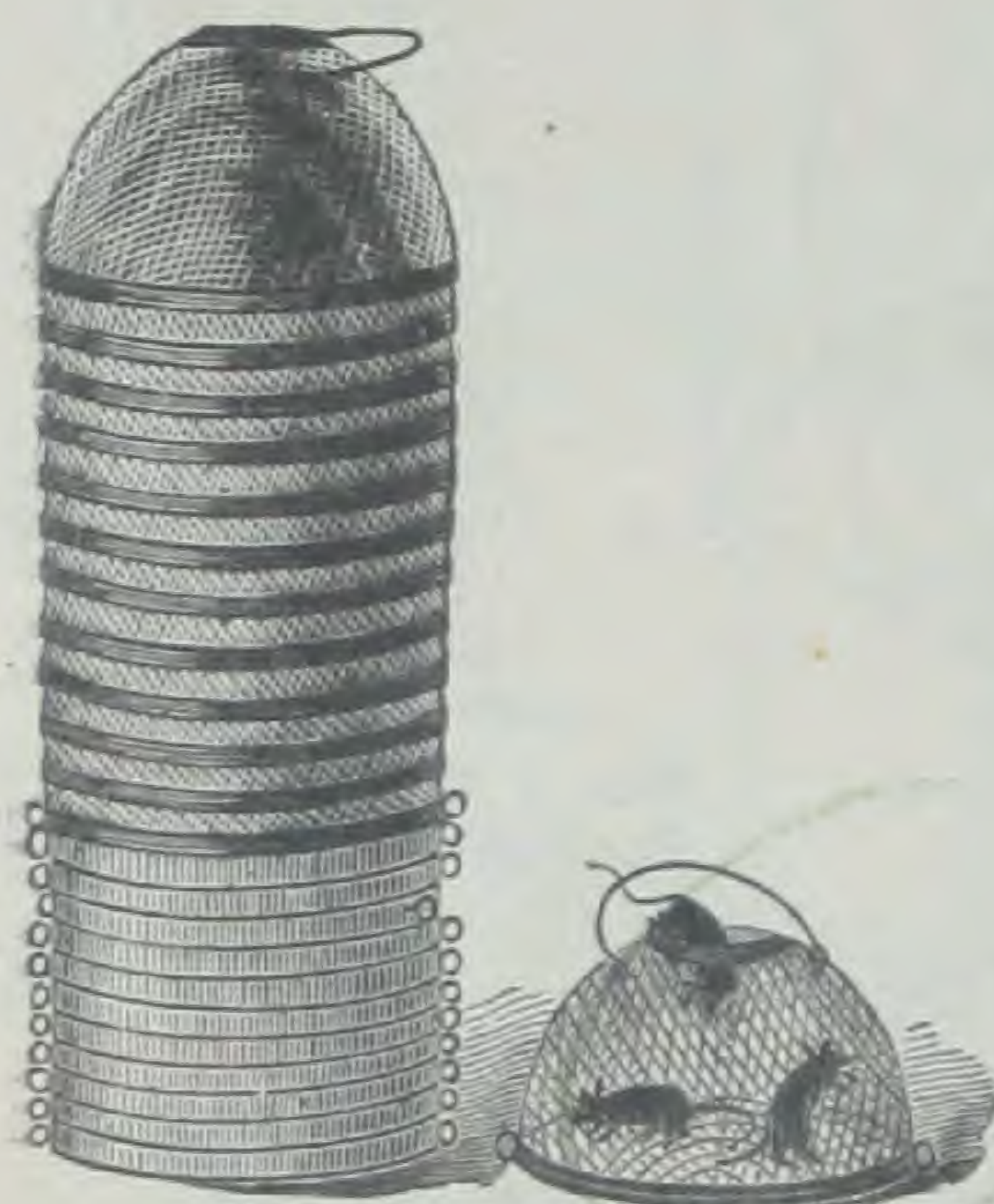
Tin Plated Wire, as per cut, 27 inches high (for refreshment tables), \$4 00 each.

Sponge Baskets.

Diamond Wire Work, 22 in. by 30 in., 42 in. high, upon castors, \$12 00 each.

Discount.

RAT AND MOUSE TRAPS.



Adjustable Bottom Globe Mouse Trap.



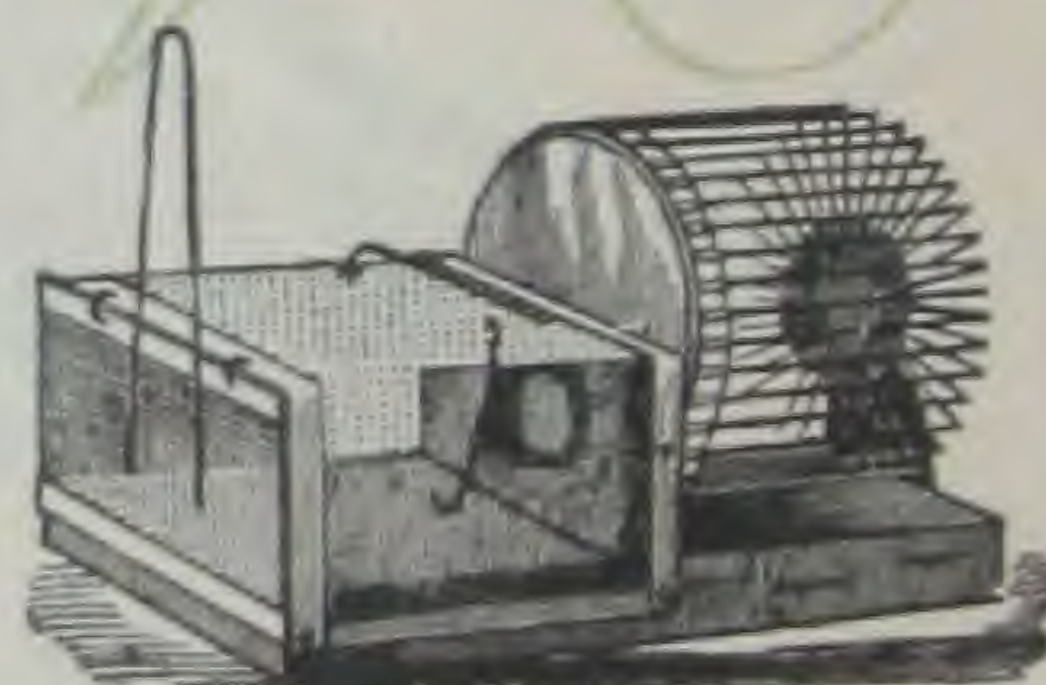
Square Mouse Trap.



Tinned Wire Globe Trap.



Patent Lock Rat Trap.



Toy Mouse Trap.

Price List of Rat and Mouse Traps.

6x11 inch Patent Lock Tinned Rat Trap, Wood Bottom....	\$ 5 50 per dozen.
10 " Globe " " "	..... 10 00 "
12 " " " " "	..... 12 00 "
14 " " " " "	..... 14 00 "
3x6 $\frac{1}{2}$ " Toy Wheel Mouse Trap.....	30 00 per gross.
5 inch diameter Globe " 	18 00 "

Discount,

No less than one-half dozen lots sold.

WIRE WINDOW SCREENS

**AS A RELIEF FROM THE ANNOYANCE
OF FLIES, MOSQUITOES,
GNATS, ETC.**

Made of **Green, Drab or Landscape** Painted **Wire Cloth**, secured to cabinet finished Black Walnut, Ash, Cherry or Mahogany frames. Made specially to fit each window of a residence, and, when provided with accompanying slides, permitting the raising of the frame the same as the ordinary sash, without interfering with the latter or any blinds hinged on the outside of the house.

All made to order.

PRICES ON APPLICATION.

In sending orders, state the actual distance **between** the face of the stop beads of the window frame.

Of late years we have had a large demand for these Screens to be made of **Brass** and **Copper** Wire Cloth for service in houses situated on the seashore, where the latter metals are desirable for use to withstand the salt air. All reports from experience with these screens are highly satisfactory, and we invite attention to their advantages of use for the purpose.

WIRE CLOTH WINDOW SIGNS.



This is unquestionably the handsomest and cleanest window sign suitable for banking rooms, corporations, etc. The frames are perfectly mounted, equal to cabinet work, and can be made to raise the same as the sash, or to bolt to the window frame. The wire cloth used is No. 24 mesh, i. e., 24 meshes to the lineal inch, or 576 to the square inch (about four times as fine as the ordinary mosquito or fly netting). This, while it does not impede the circulation of air in the summer, serves the threefold purpose of insect screen, dust arrester, and sign, permitting the occupants of the room to see through, but obscuring largely the view of people from without, and yet without obstructing the light. With bold gold letters on a green or maroon background, they present a beautiful appearance, and have been adopted by most of the New York Banking Houses.

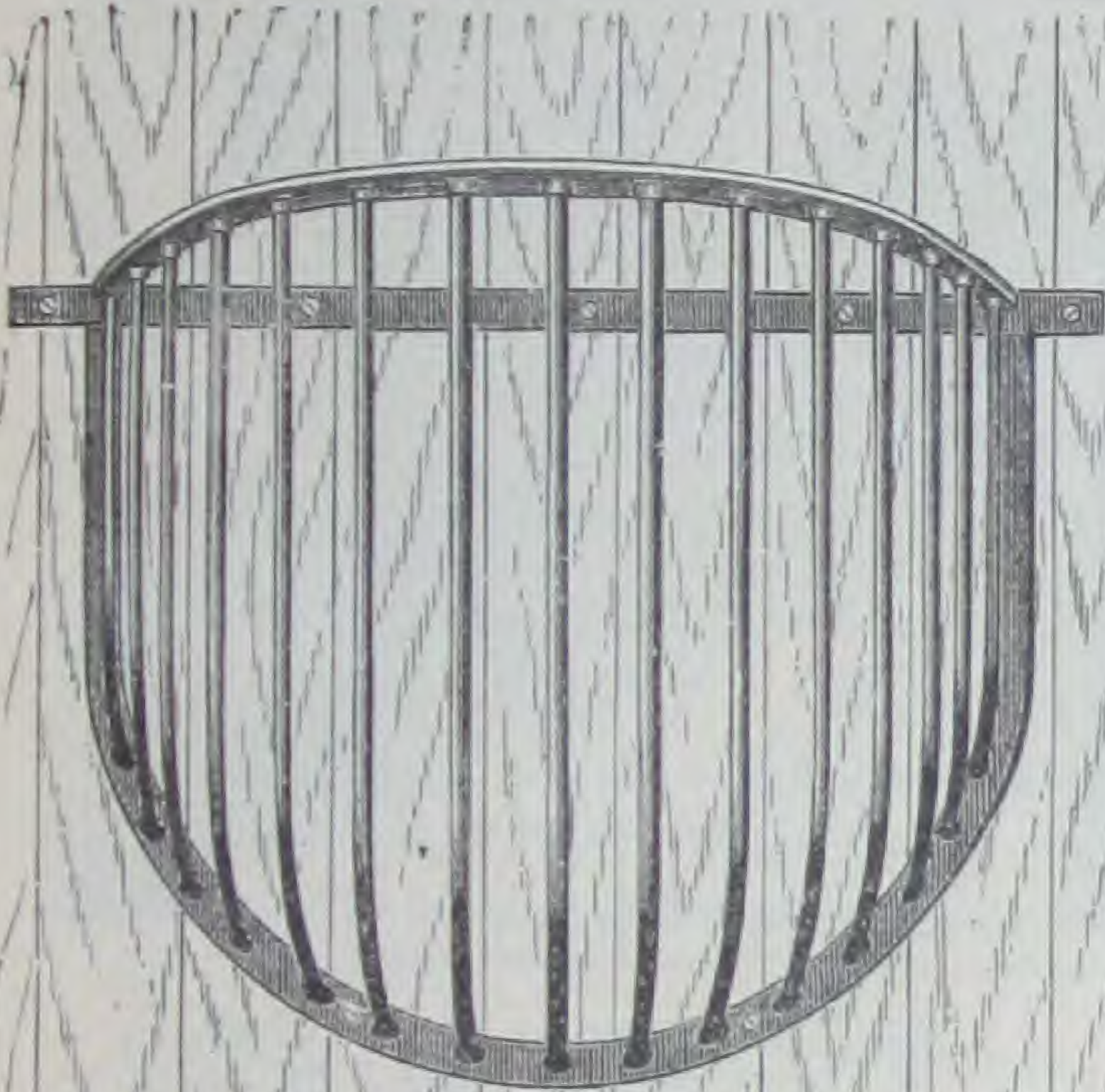
We are prepared to furnish these screens, with black walnut frames, at 50 cents per square foot.

Extra charge for	{	Gold Letters, 4 inch and under,	\$1 00	per running foot.
		" Border, ordinary width,	18	" "
		" " extra	25	" "

In sending orders, please state the *exact* width and height of the opening the screen is desired to fill; also whether frames are to be made to raise.

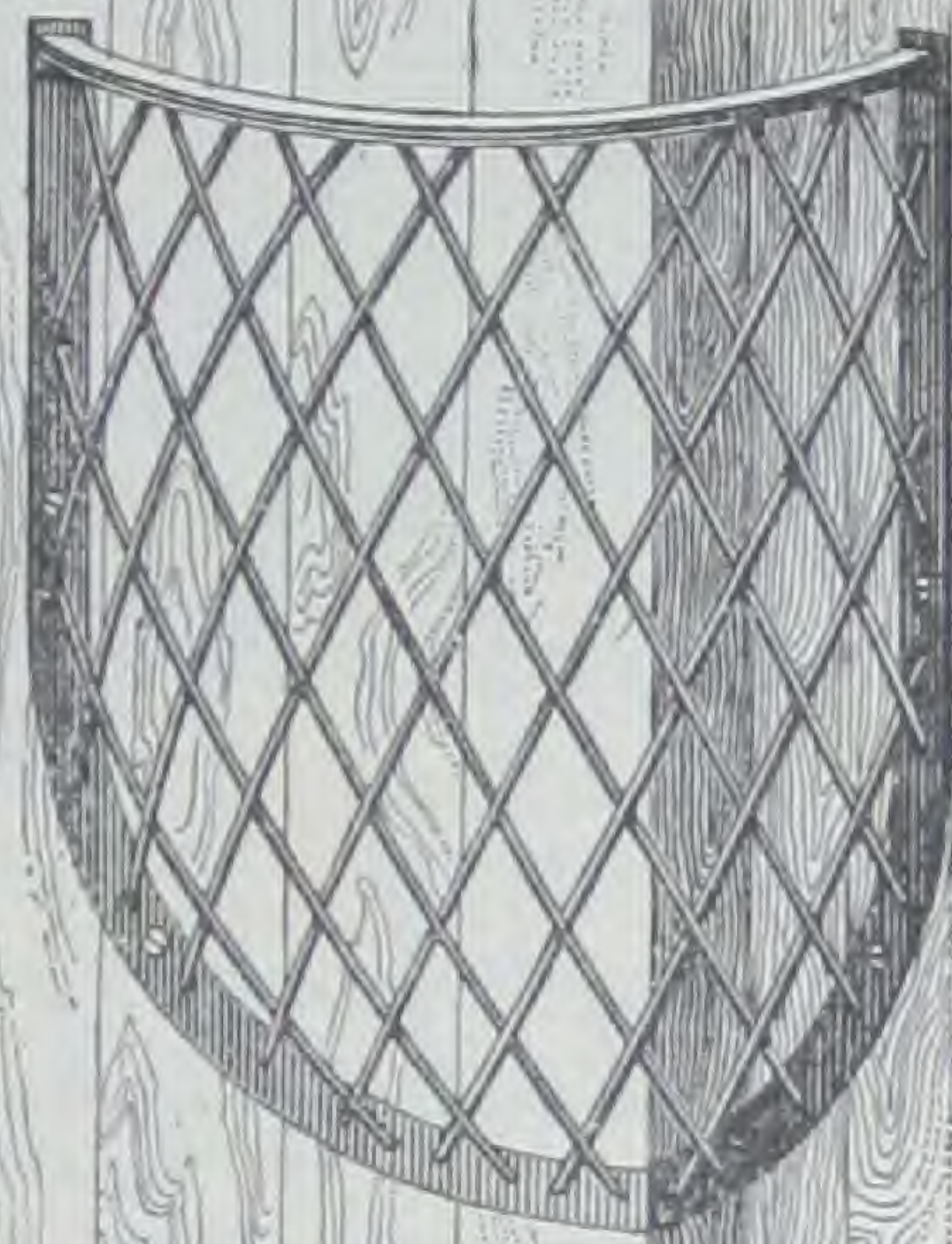
When desired, we can also supply in Cherry, Mahogany or Ash frames.

WROUGHT IRON STABLE FIXTURES.



No. 54, Double or Half-Circle Wrought Iron Hay Rack.

This can be used for two stalls by running the open work partition through between the bars, bringing half the rack on each side.

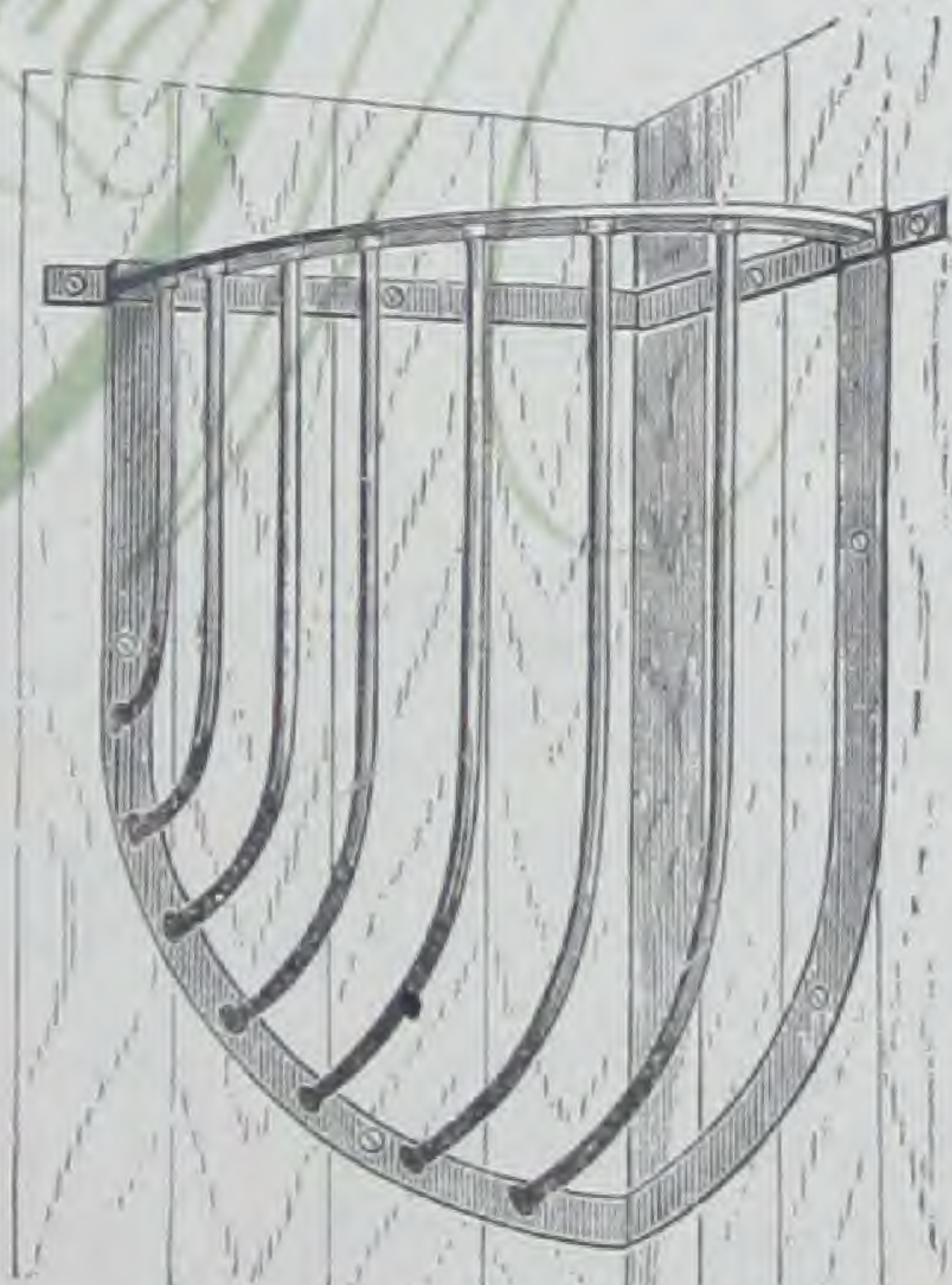


No. 56, Diamond Iron Wire Work.

2 x 4 inch mesh, $\frac{3}{16}$ inch rods.



No. 55, Single or Corner Hay Rack, Left Hand.



No. 55, Single or Corner Hay Rack, Right Hand.

Prices of Wrought Iron Hay Racks.

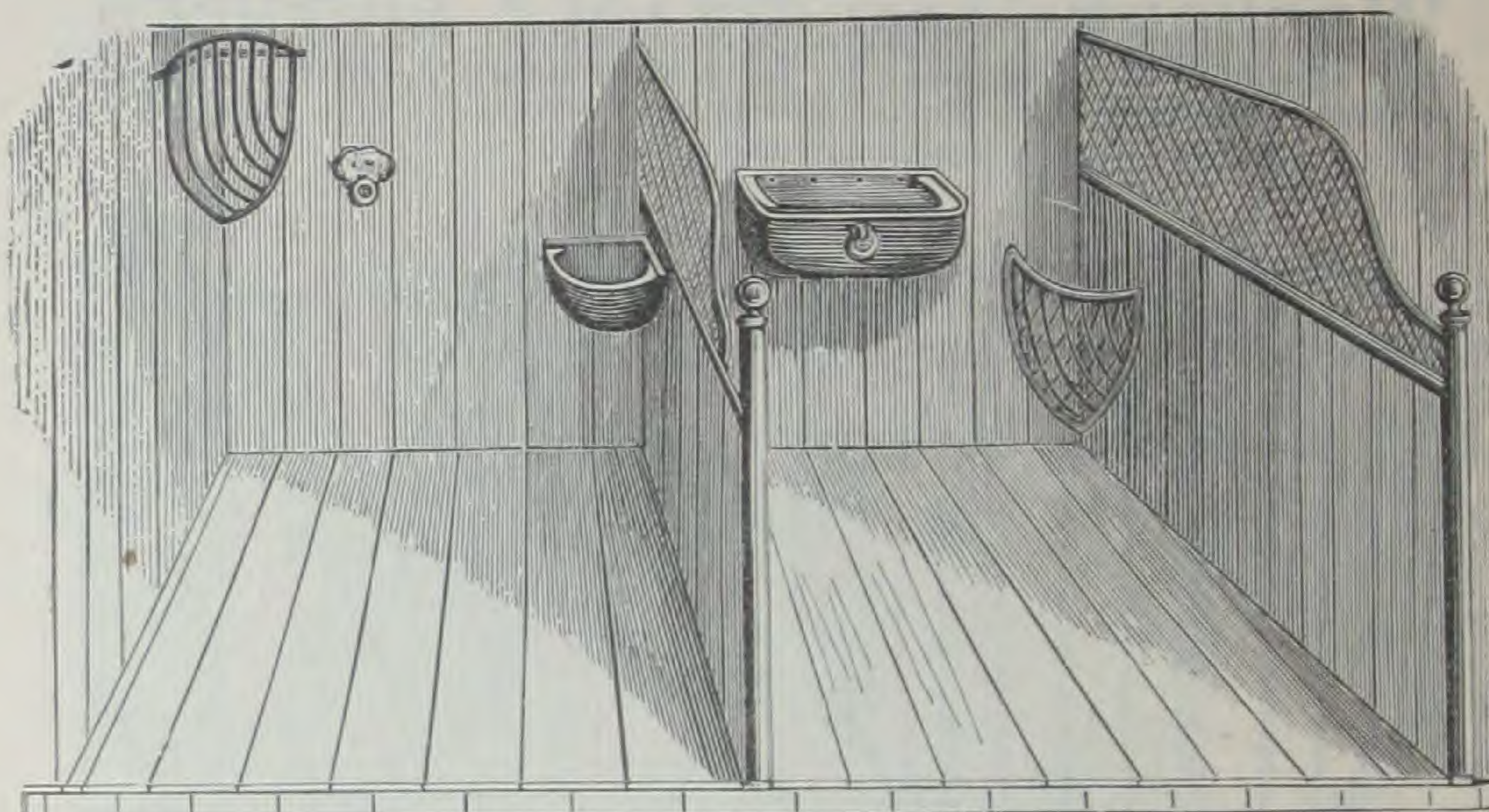
No. 54, Double, 32 inches by 32 inches.....	\$10 00 each.
With rabbet on top bar to take ceiling boards for Hay Chute ...	1 50 extra.
No. 55, Single, 16 inches by 32 inches.....	7 00 each.
With rabbet on top bar to take ceiling boards for Hay Chute....	1 00 extra.

Prices of Diamond Iron Work Hay Mangers.

No. 56, Diamond Iron Work, Center Manger, 30 x 32 inches.....	\$9 00 each.
" 57, " " Corner " 30 x 24 "	6 00 "

Discount,

These Hay Mangers are used instead of Hay Racks, being placed three inches from the floor. All the dust drops through upon the floor.

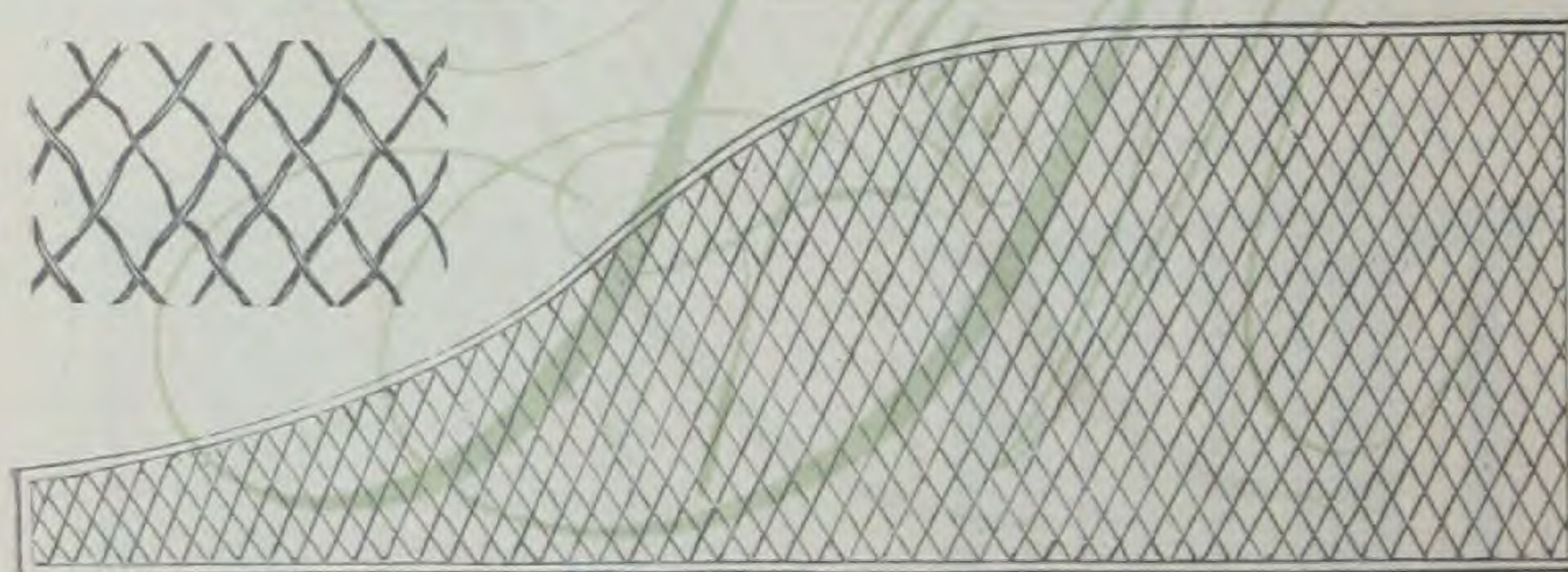


No. 35, Corner Feed Box.
" 55, " Hay Rack.

No. 14, Center Feed Box.
" 57, Corner Hay Manger.

Wrought Iron Diamond Wire Work Stall Partitions. We show, also, other stall fittings in position that it may be seen how they are intended to be put up.

WROUGHT IRON STALL PARTITIONS.



Crimped Wire Work Stall Partition, in Grooved Iron Frame,
2 Inch Mesh, 3-16 Inch Wire.

It was formerly thought necessary to make all stall partitions of cast iron, but experience has proved wrought iron to be much better and eventually cheaper, although the original cost is greater. The cast iron ones are liable to get broken and injure the horses. We, however, still furnish the cast iron when desired.

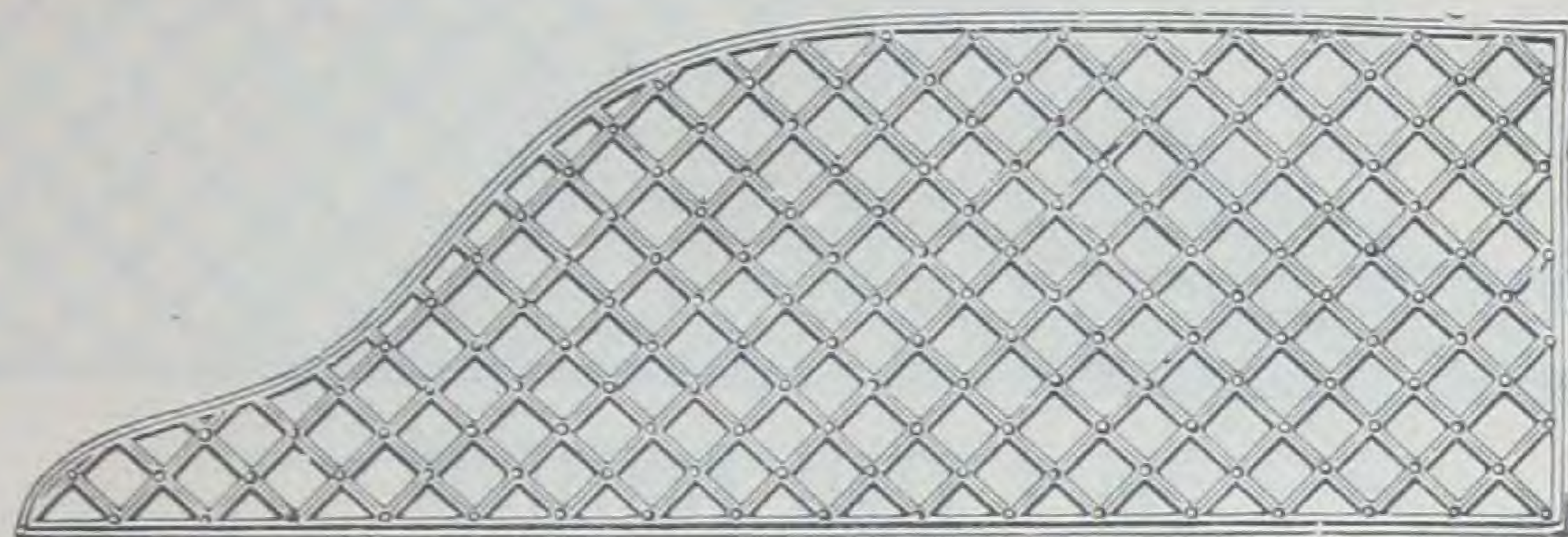
Price of Crimped Iron Work Stall Partitions.

30 in. by 7 feet 0 in.	=17 feet 6 in.,	at 60c. per sq. foot,	\$10 50 each.
" 7 " 6 "	=18 " 9 "	" " "	11 25 "
" 8 " 0 "	=20 " 0 "	" " "	12 00 "
" 8 " 6 "	=21 " 3 "	" " "	12 75 "
" 9 " 6 "	=23 " 9 "	" " "	14 25 "

Wire Work for Box Stalls, same as in Stall Partitions, 30 inches high, length to suit, \$1 50 per running foot.

Discount,

CAST IRON STABLE FIXTURES.

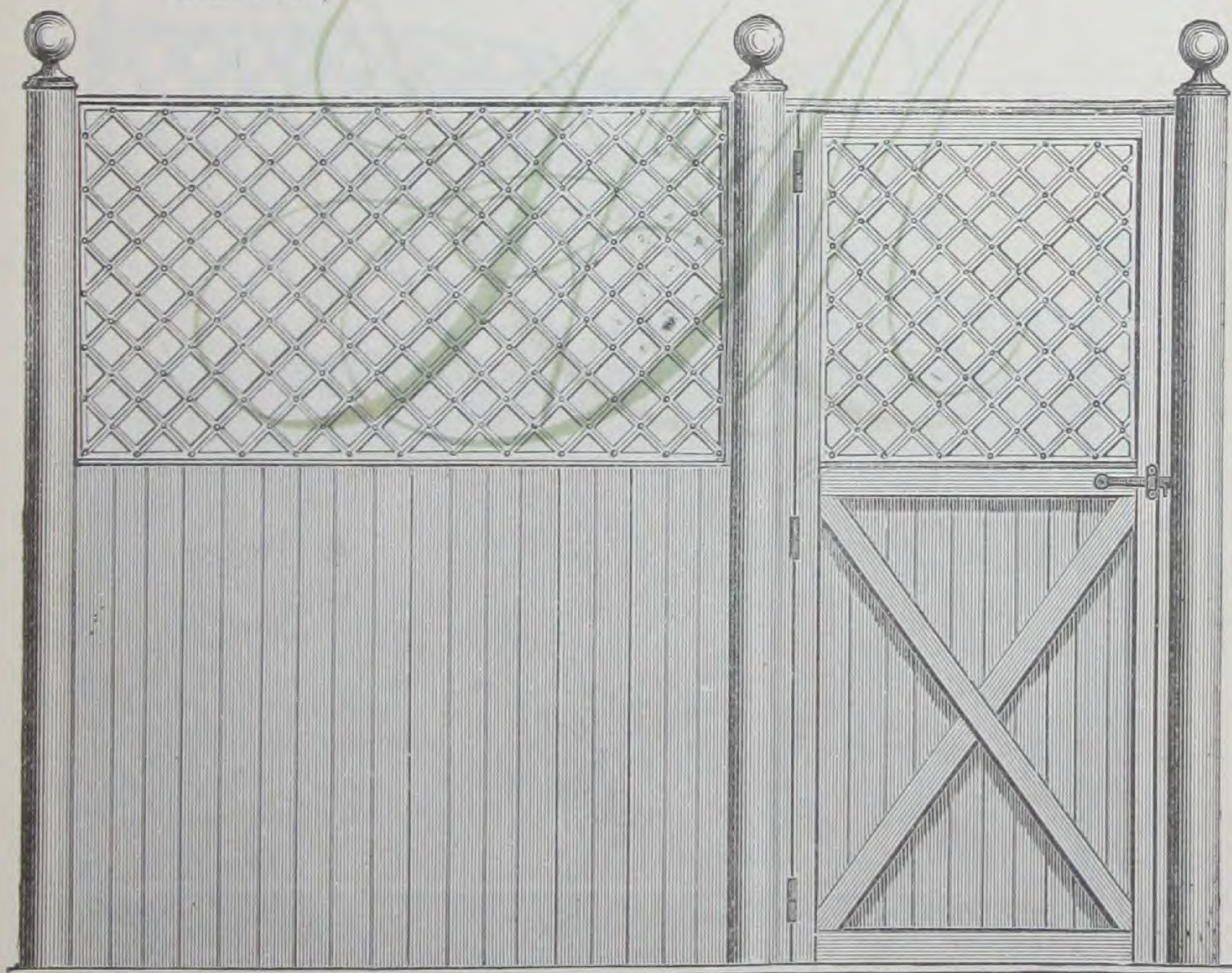


No. 0, Stall Partition.

This is a very desirable pattern for Livery and Railroad Stables, and for refitting old stables. The finish at the narrow end allows it to be used for any depth of stall. This, as well as all others of our make, has a flange the whole length of the lower edge.

Price for 6 feet long, 28 inches high	.....	\$5 50 each.
" " 7 " " 28 " "	.....	6 25 "
" " 8 " " 28 " "	.....	7 00 "

Discount,

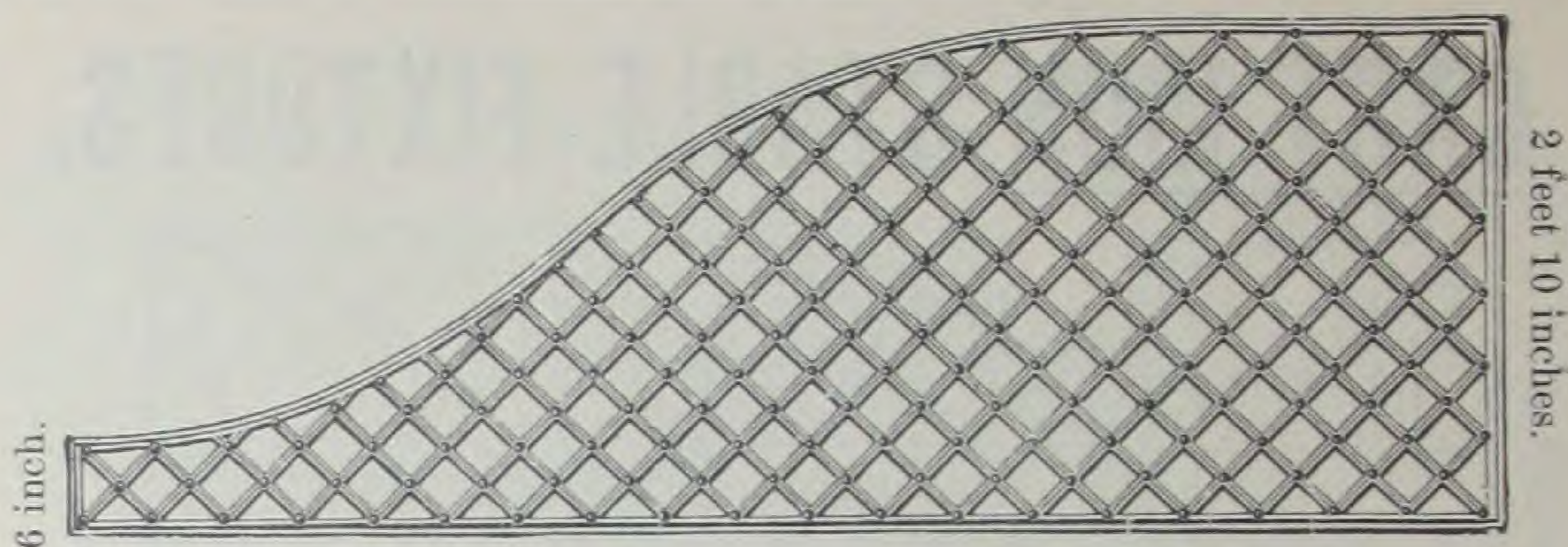


No. 2.

Grating for box stalls, of same pattern as the Ogee Partition, No. 1, made in lengths as required, up to 12 feet in one piece, which is as long as is ever needed, and of different widths, as follows : 2 feet, 2 feet 4 inches, and 2 feet 10 inches.

Prices per lineal foot: 2 feet 10, \$1.85; 2 feet 4, \$1.75; 2 feet, \$1.60.

Discount,

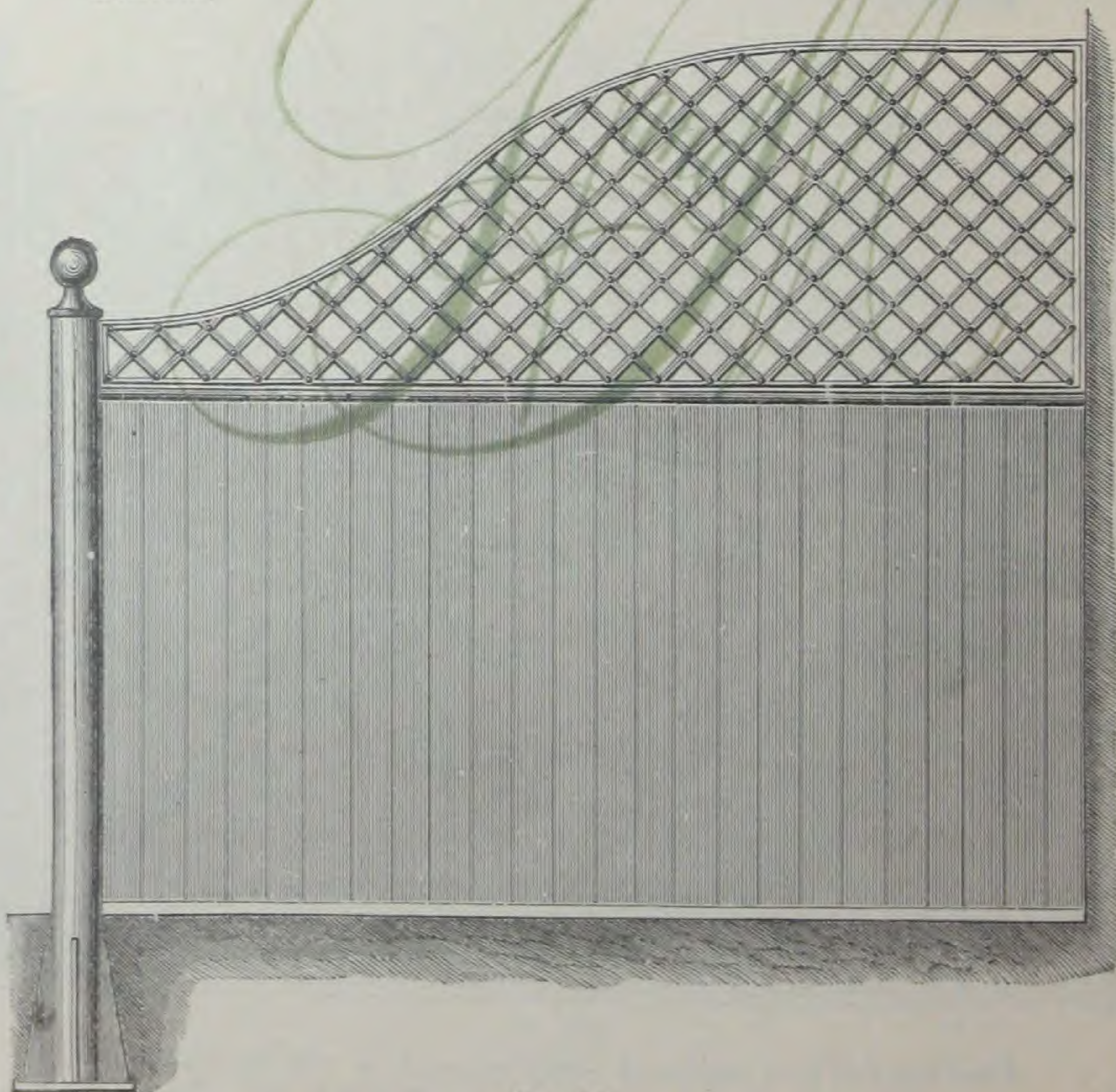


No. 1 STALL PARTITION.

Ogee open work ventilating Stall Partition, with flange $1\frac{1}{2}$ inches wide the whole length of lower edge; different lengths as follows:

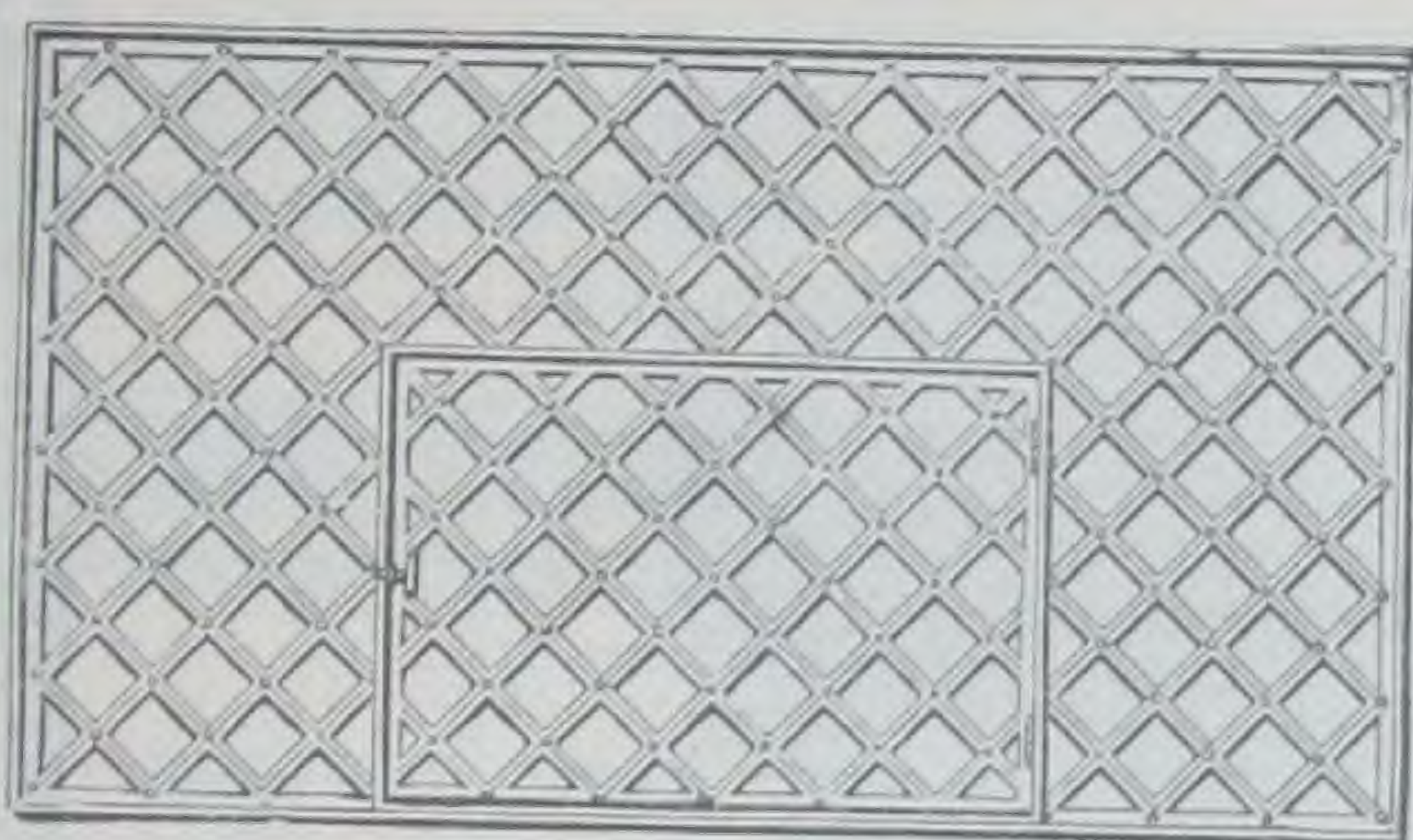
7	feet	6	inches	by	2	feet	10	inches,	at	wide	end.....	\$9 50	each.
7	"	9	"	"	"	"	"	"	"	"	"	9 75	"
8	"	0	"	"	"	"	"	"	"	"	"	10 00	"
8	"	3	"	"	"	"	"	"	"	"	"	10 50	"
8	"	6	"	"	"	"	"	"	"	"	"	11 00	"
9	"	0	"	"	"	"	"	"	"	"	"	11 50	"
9	"	3	"	"	"	"	"	"	"	"	"	12 00	"

Discount,



No. 13.

Open work ventilating Partition, shown in position, in connection with iron Stall Post, No. 21, Iron Capping Rail No. 3, and wood work.

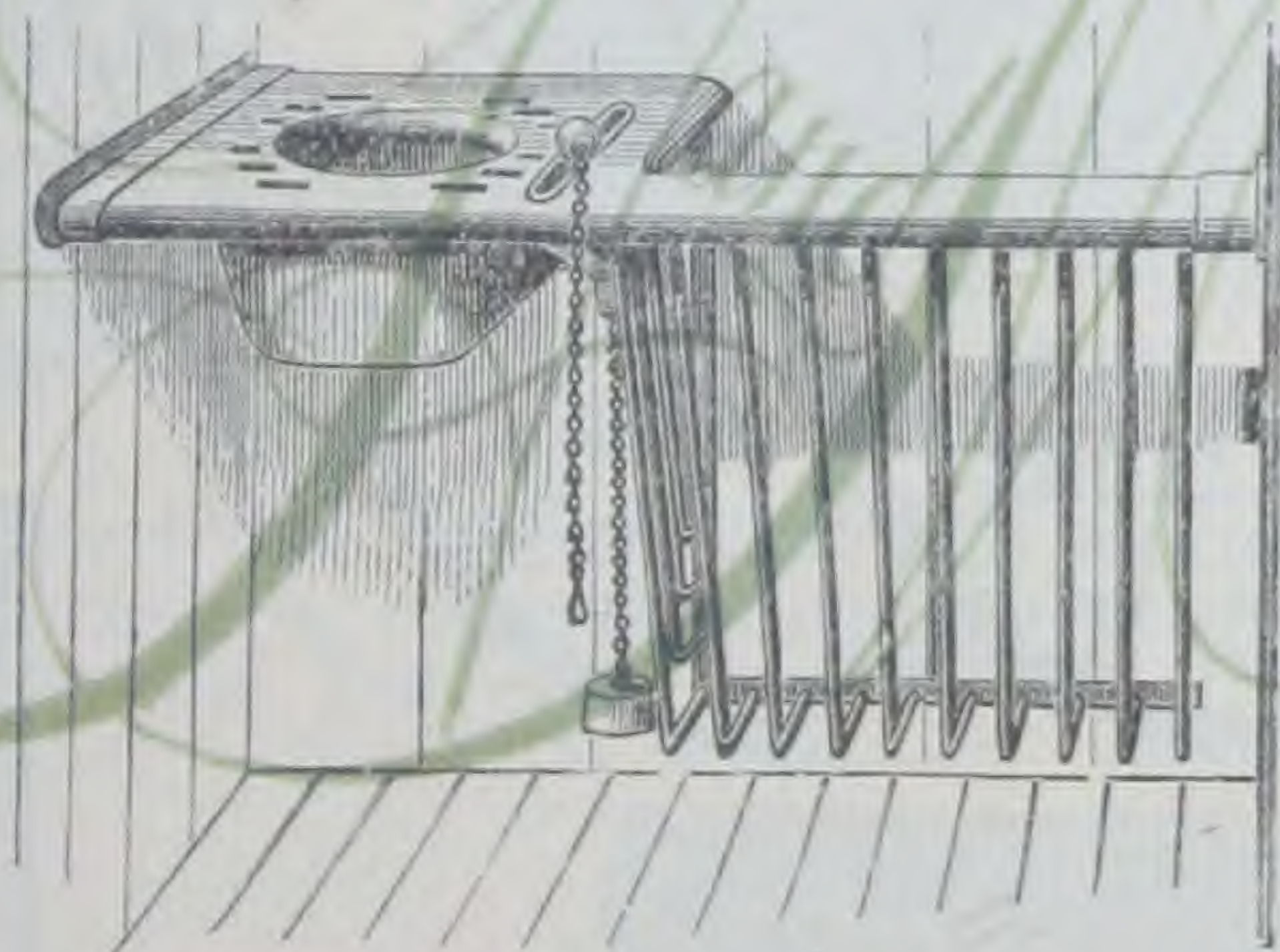


No. 8, HEAD GRATING, WITH FEEDING DOOR.

By some a feeding passage, four or five feet wide at the head of the stall, is approved, and where there is sufficient room to allow it, it is certainly desirable; in such cases a grating like the above, with door for feeding through, is a great improvement, and makes a good appearance in carrying out the iron work, with same finish as open work partitions.

Price, \$1.85 per lineal foot, with \$3 00 extra for door.

Discount,

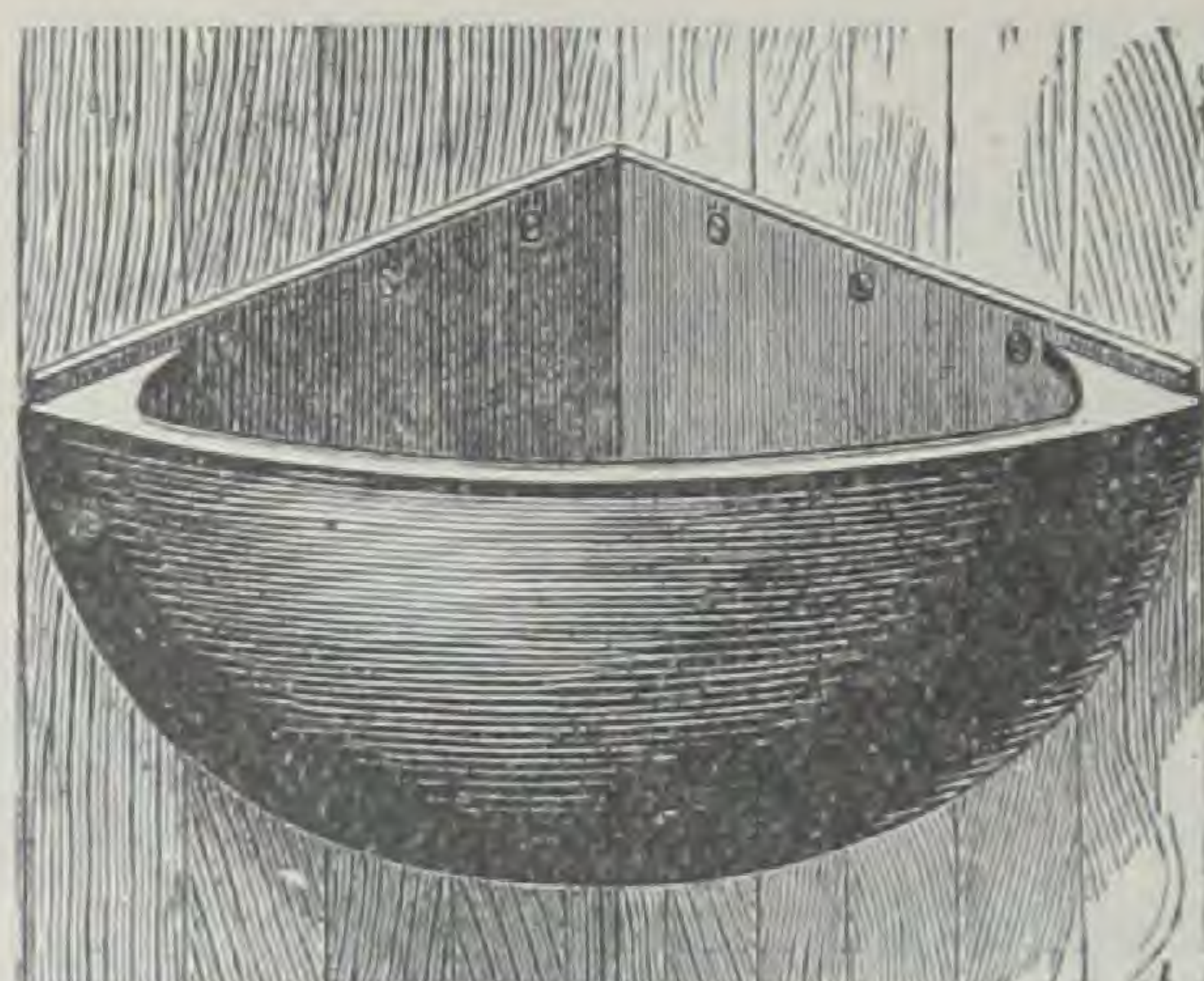


No. 5, IMPROVED MANGER FITTING.

With capacious wrought iron hay rack. Food Guard to oat manger, and sliding flanges at both ends of top plate, allowing easy adjustment to stalls of different widths, from 4 feet 6 inches to 5 feet 2 inches. In addition to the shoe fastenings at the ends, the top plate is supported by a strong bracket in the center, making it proof against accidents by breaking. The tying apparatus attached to this crib is an acknowledged improvement over all others in use. The horse is not fastened to the manger, but the chain or halter works through a long slit in the top plate and over a roller in the center bracket (made hollow for the purpose), which holds back the halter weight close to the wall; the weight is protected by an india-rubber buffer on the top, which breaks the shock when the halter is suddenly pulled up. The india-rubber ball attached to the halter above the top plate relieves the horse of the weight. It will be seen that by means of the bracket and roller the horse is fastened directly to the wall, and not to the top plate or manger, and that friction is almost entirely overcome.

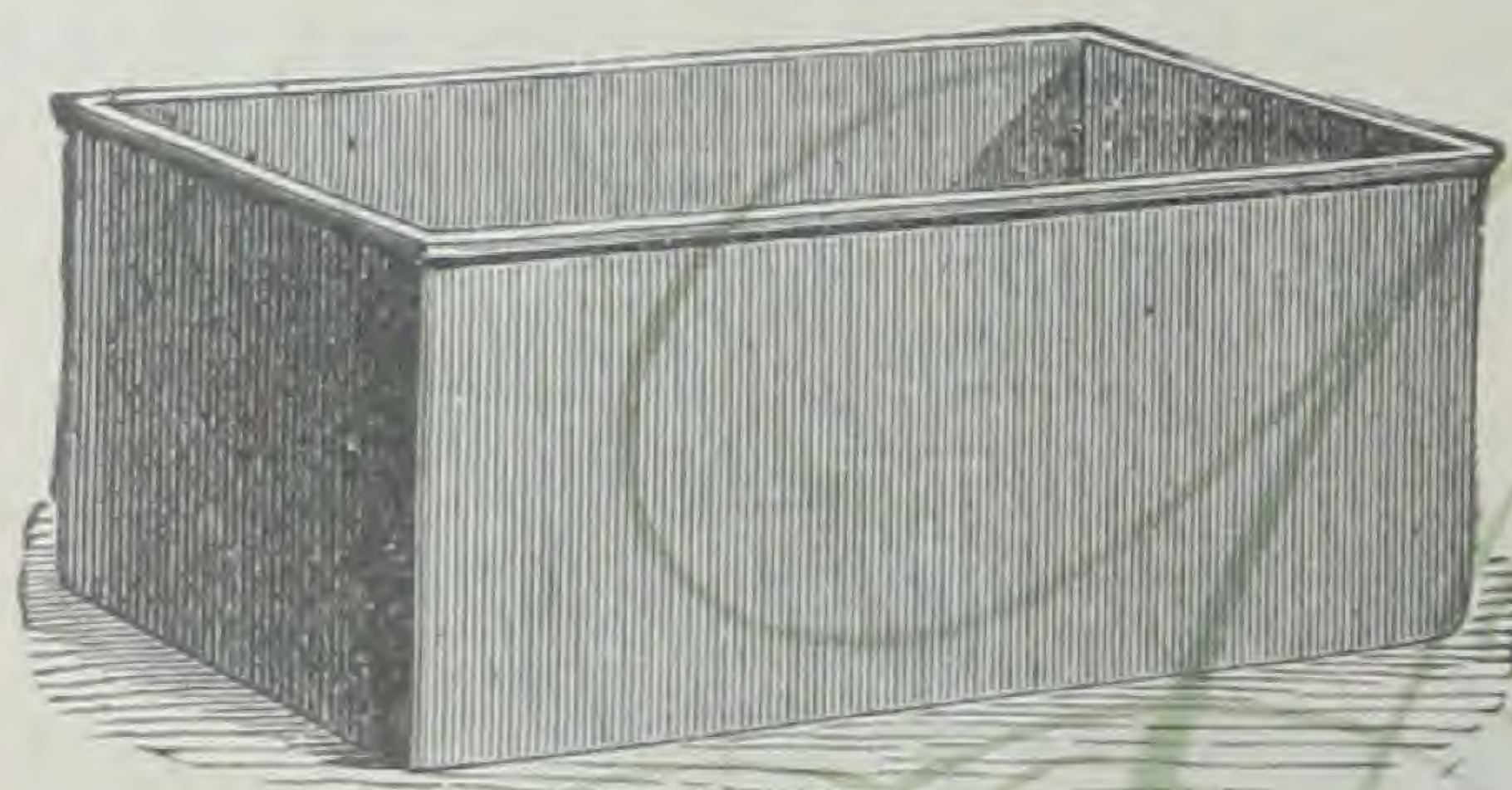
Price, including halter chain.....\$31 50 each.

Discount,



No. 35.
Corner Feed Box.

With inside Flange and Food Guard. 18 in. sides, and 11 in. deep. Price, \$3 00 each.



No. 36.
Drinking Trough for Horses.

36 in. long, 20 in. wide, 17 in. deep, with outlet in bottom, and overflow in end. Price, \$14 00 each.



No. 14.
Center Feed Box.

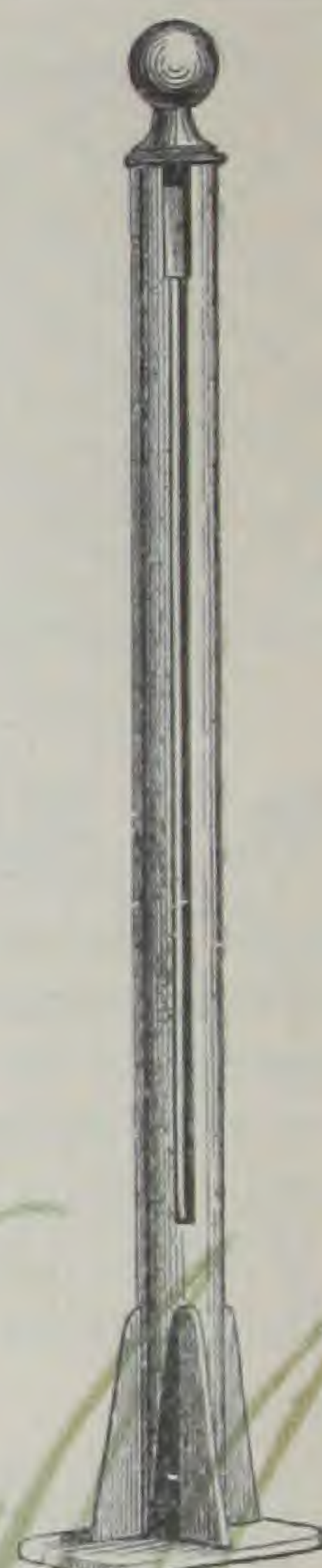
With Food Guard and Hitching Ring. 21 in. long, 12 wide, 9½ deep. Price, \$5 50 each.



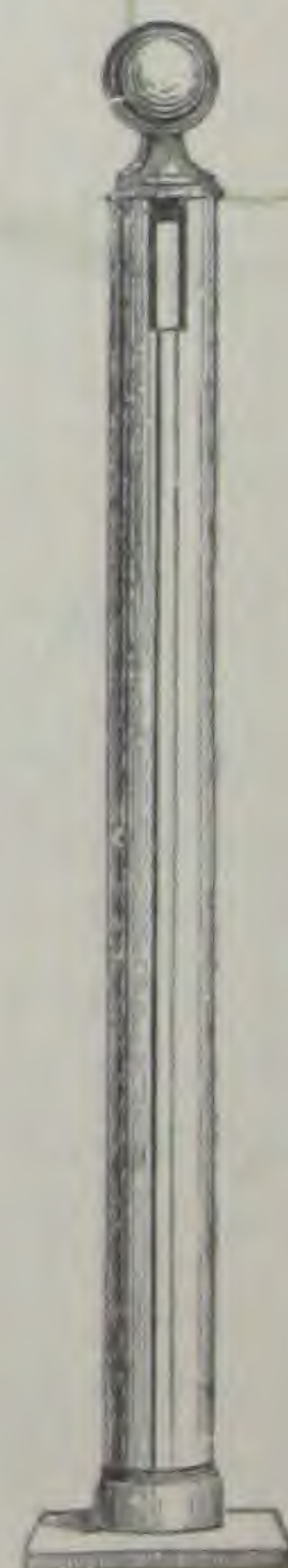
No. 15.
Plain Center Feed Box.

22 in. long, 15½ wide, 9½ deep. Price, \$3 50 each.

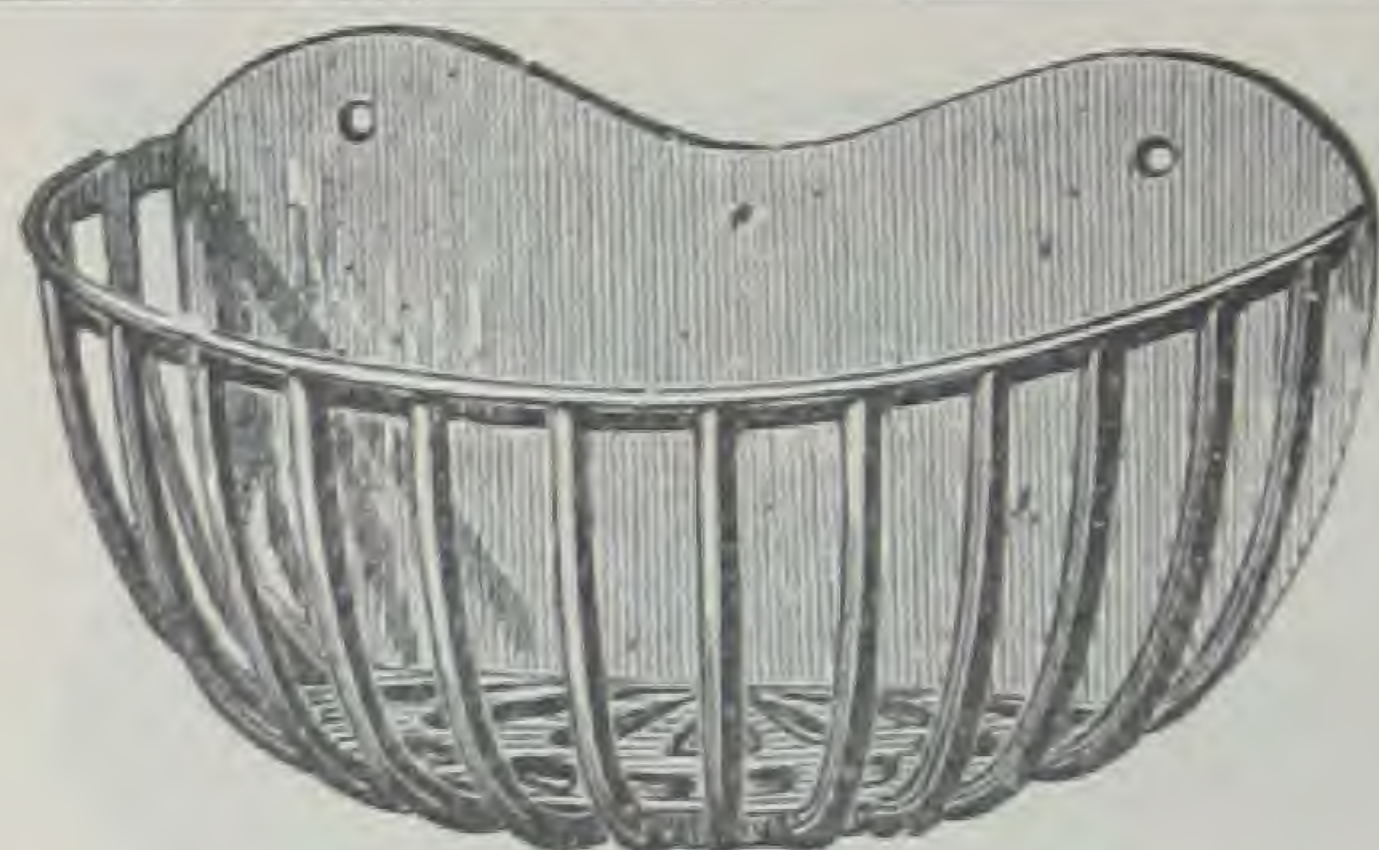
Discount,



No. 21.
CAST-IRON GROOVED POST
with leg 2 ft. long to fasten in the ground.
Price.....\$11 50 each.



No. 22.
CAST-IRON GROOVED POST
with flanged bottom, to be fastened to the floor with long bolts and nuts.
Price.....\$9 50 each.

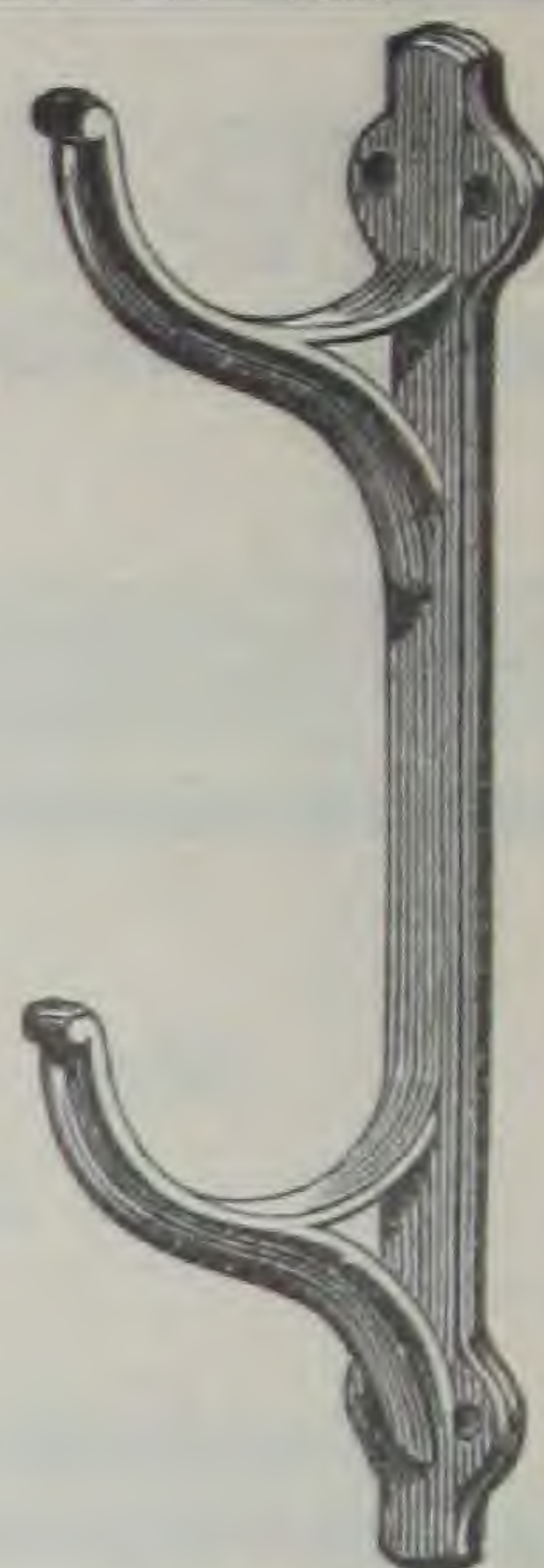


No. 30.

Wet Sponge Basket.

Large Size. $13\frac{1}{2}$ in. long, $7\frac{1}{2}$ in. wide.
Japanned.

Price.....\$1 50 each.

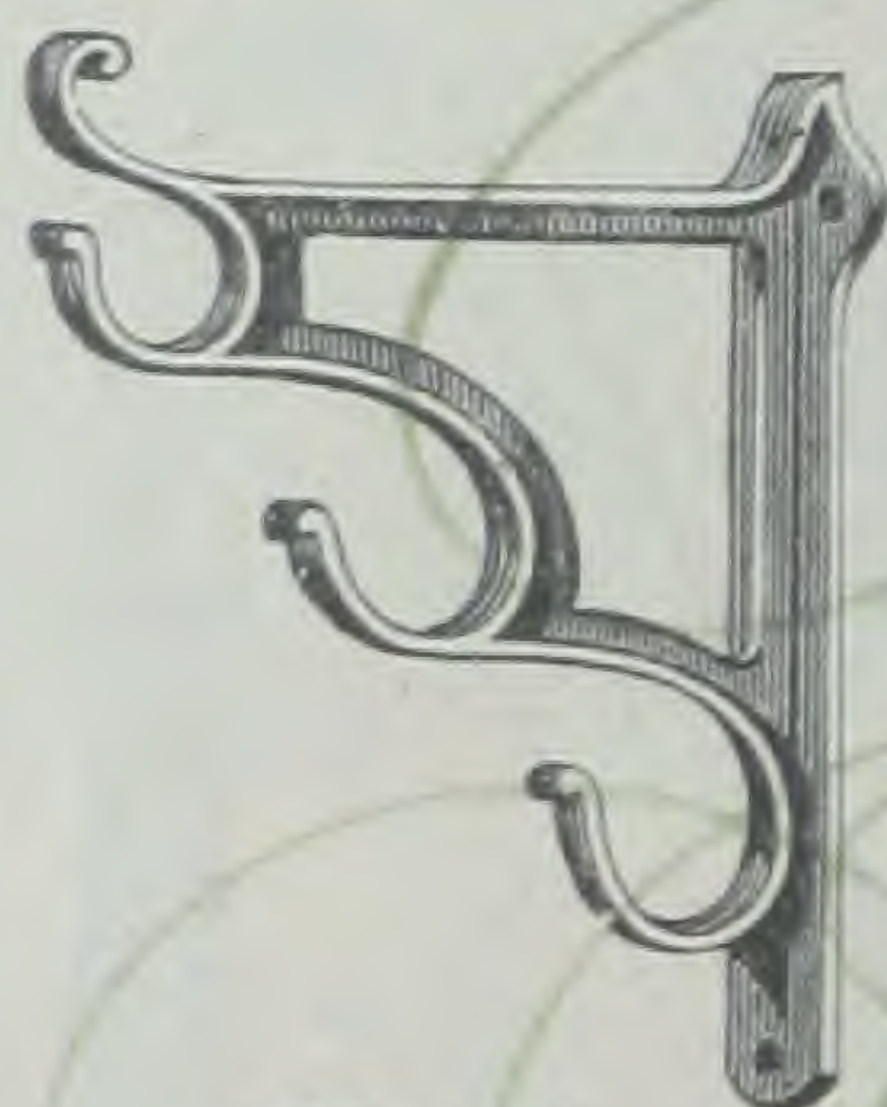


No. 29.

Pole Hook.

Japanned.

Price.....\$2 00 per pair.



No. 31.

**Washing and Oiling
Bracket.**

Japanned.

Price.....\$0 90 each.

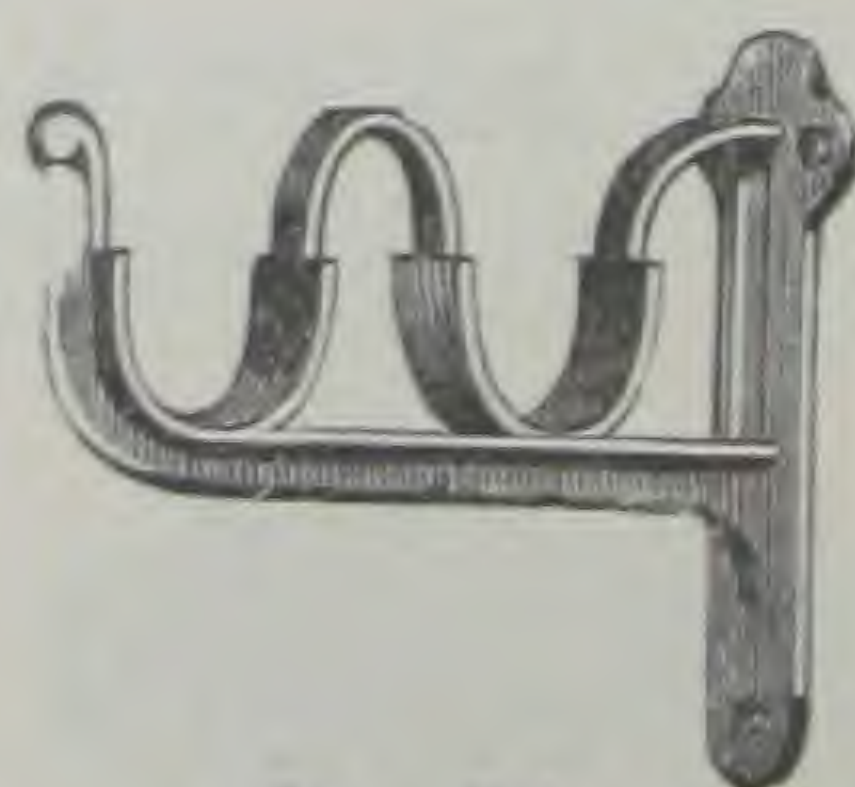


No. 8.

Saddle Bracket.

Japanned.

Price.\$1 25 each.



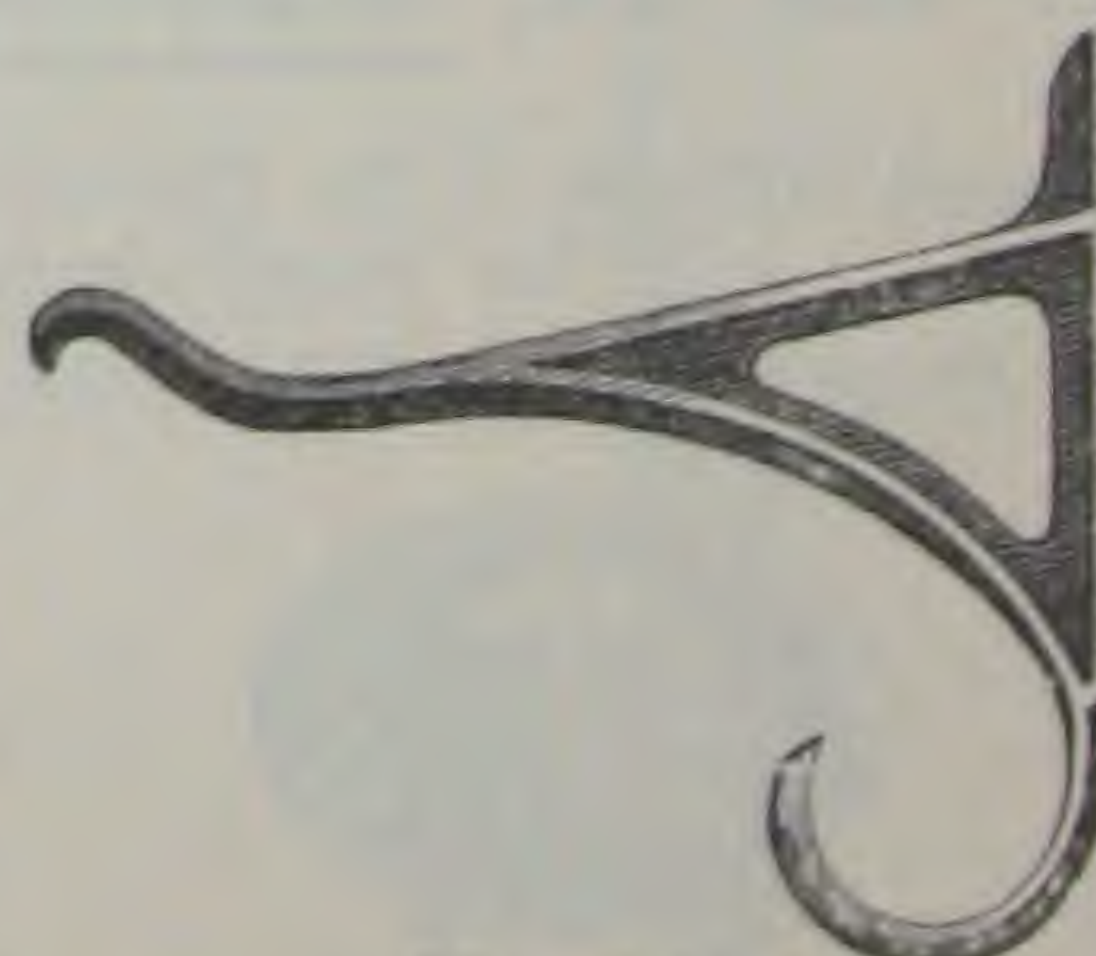
No. 34.

**Bracket for Blanket
Rollers.**

Japanned.

Price.....\$1 50 per pair.

Discount,



No. 11.

Harness Bracket.

Japanned.

Price.....\$0 90 each.

CRESTINGS AND FINIALS

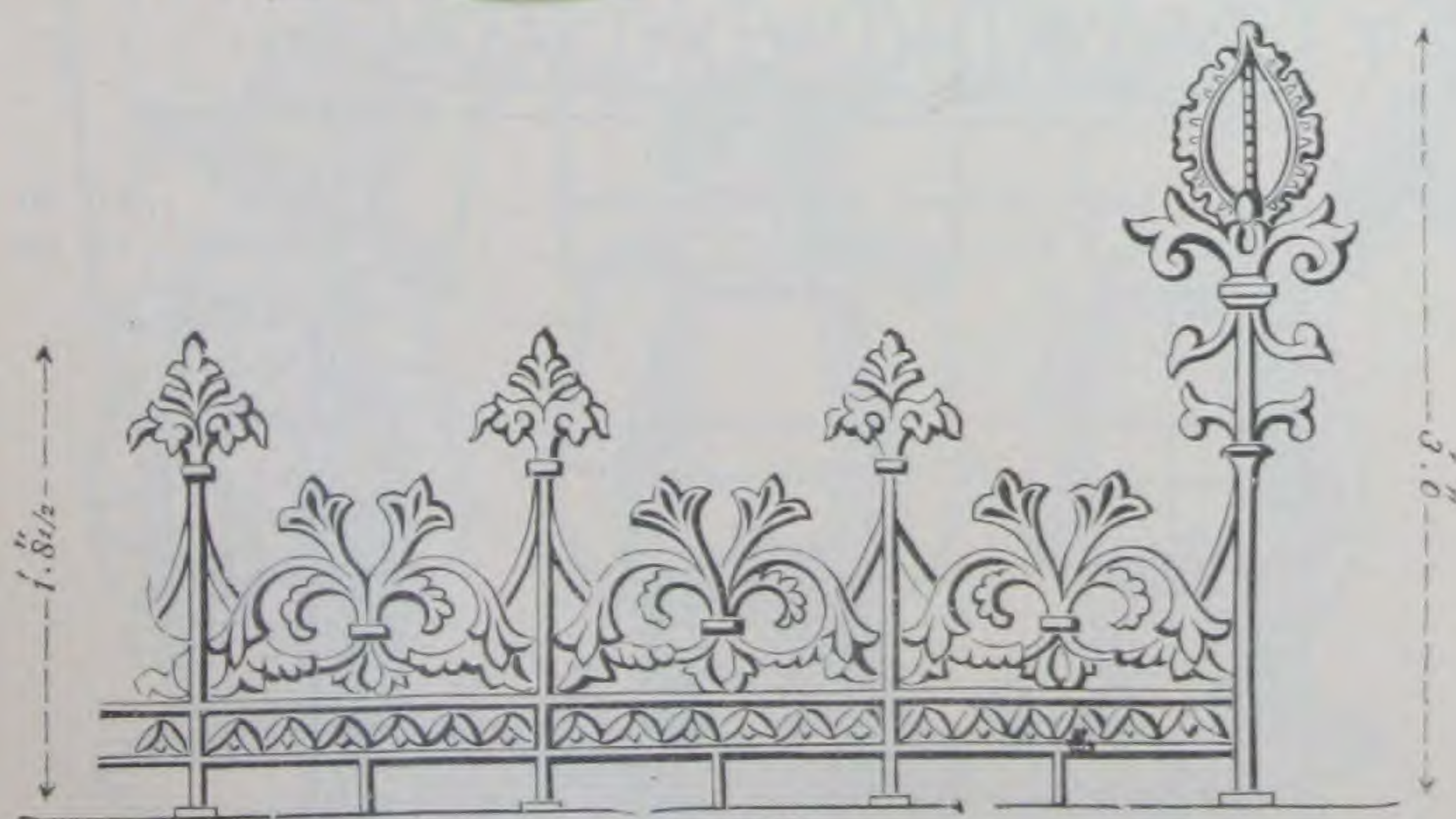
—FOR—

MANSARD ROOFS.



No. 508.

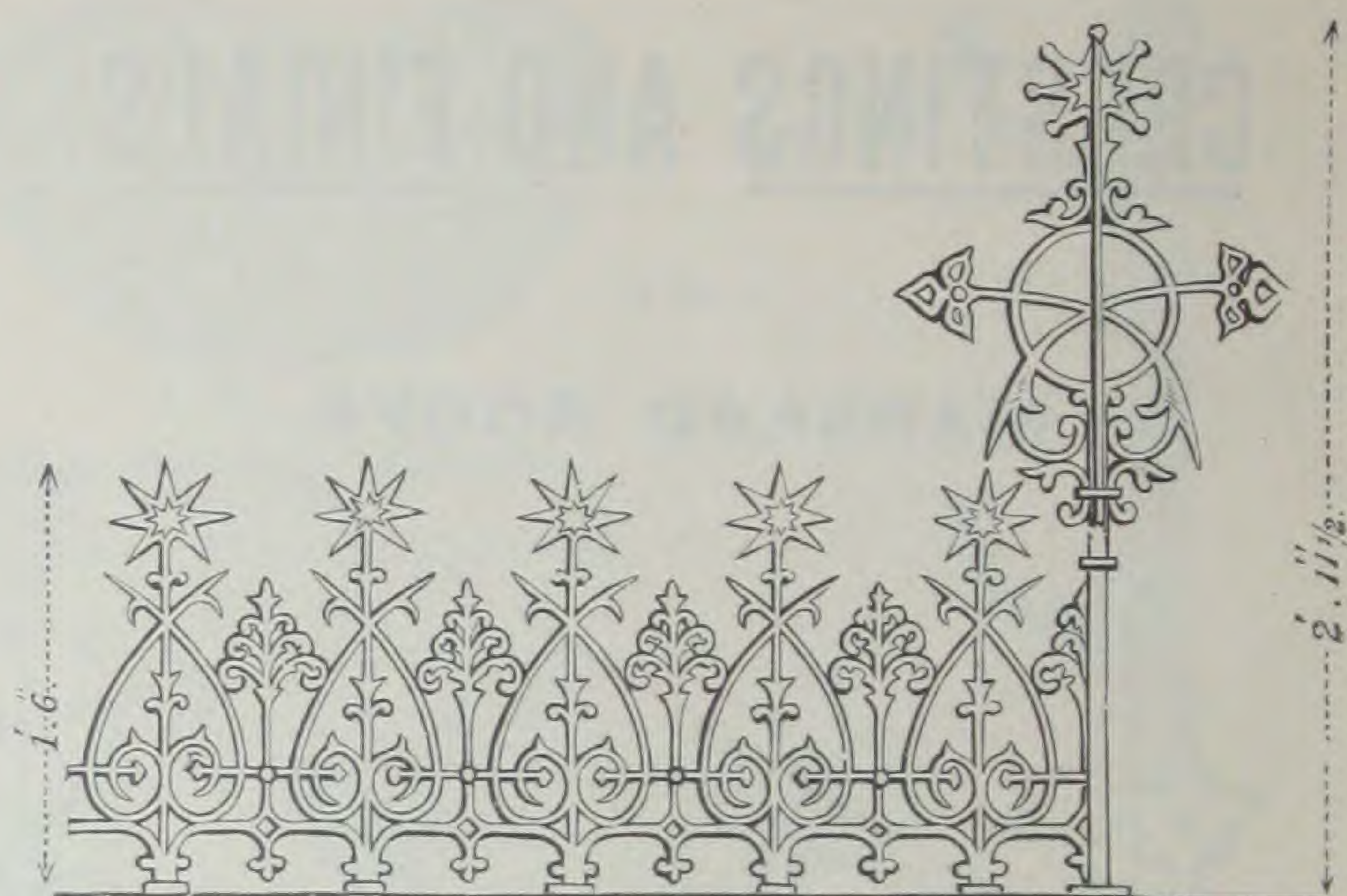
Price of No. 508 Cresting, per foot lineal.....	\$1 50
“ Finials each.....	3 85



No. 503.

Price of No. 503 Cresting, per foot lineal.	\$1 40
“ Finials each	3 75

One Finial allowed with every 25 ft. Cresting. Extra Finials at prices named.



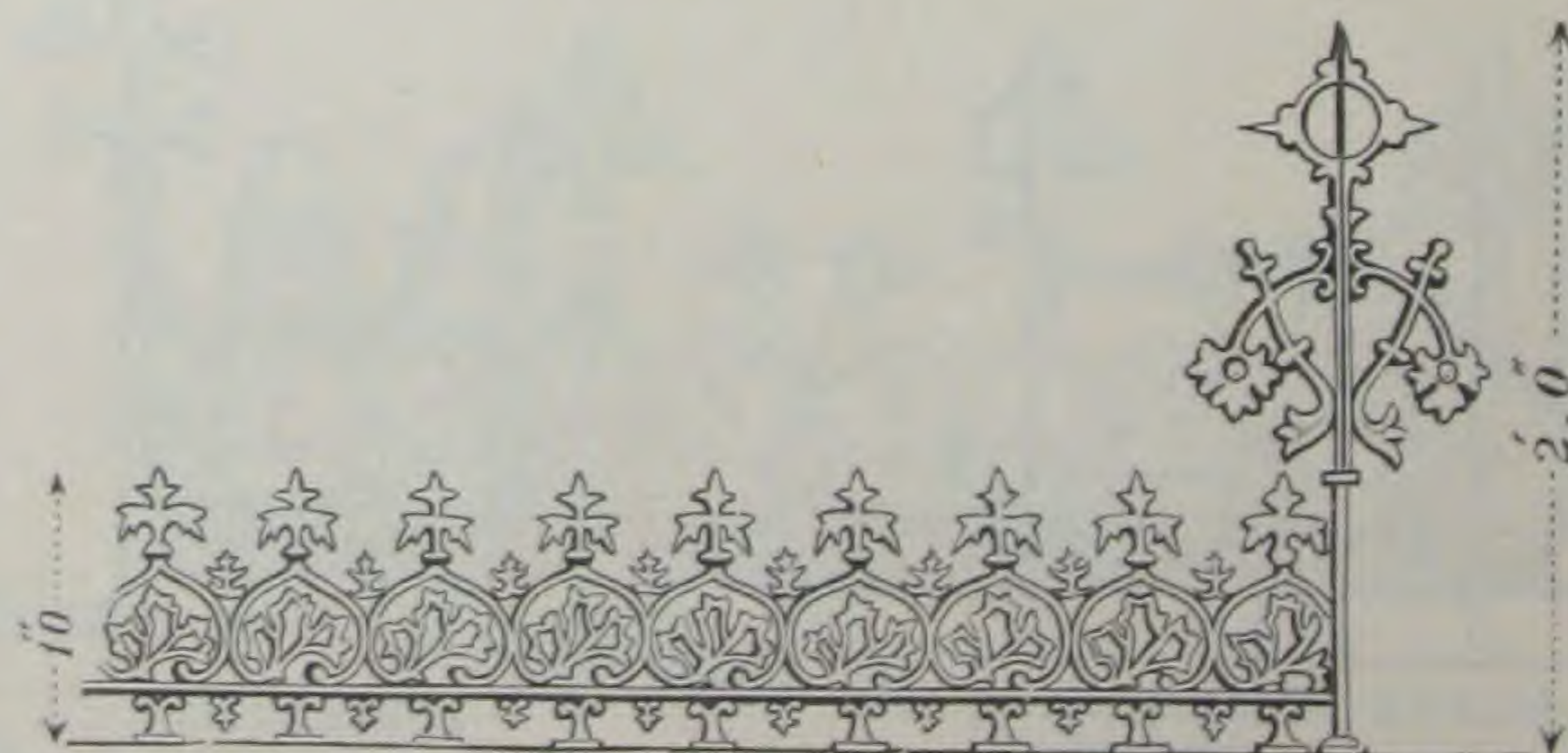
No. 509.

Price of No. 509 Cresting, per foot lineal.....	\$1 15
" Finials each	3 75



No. 510.

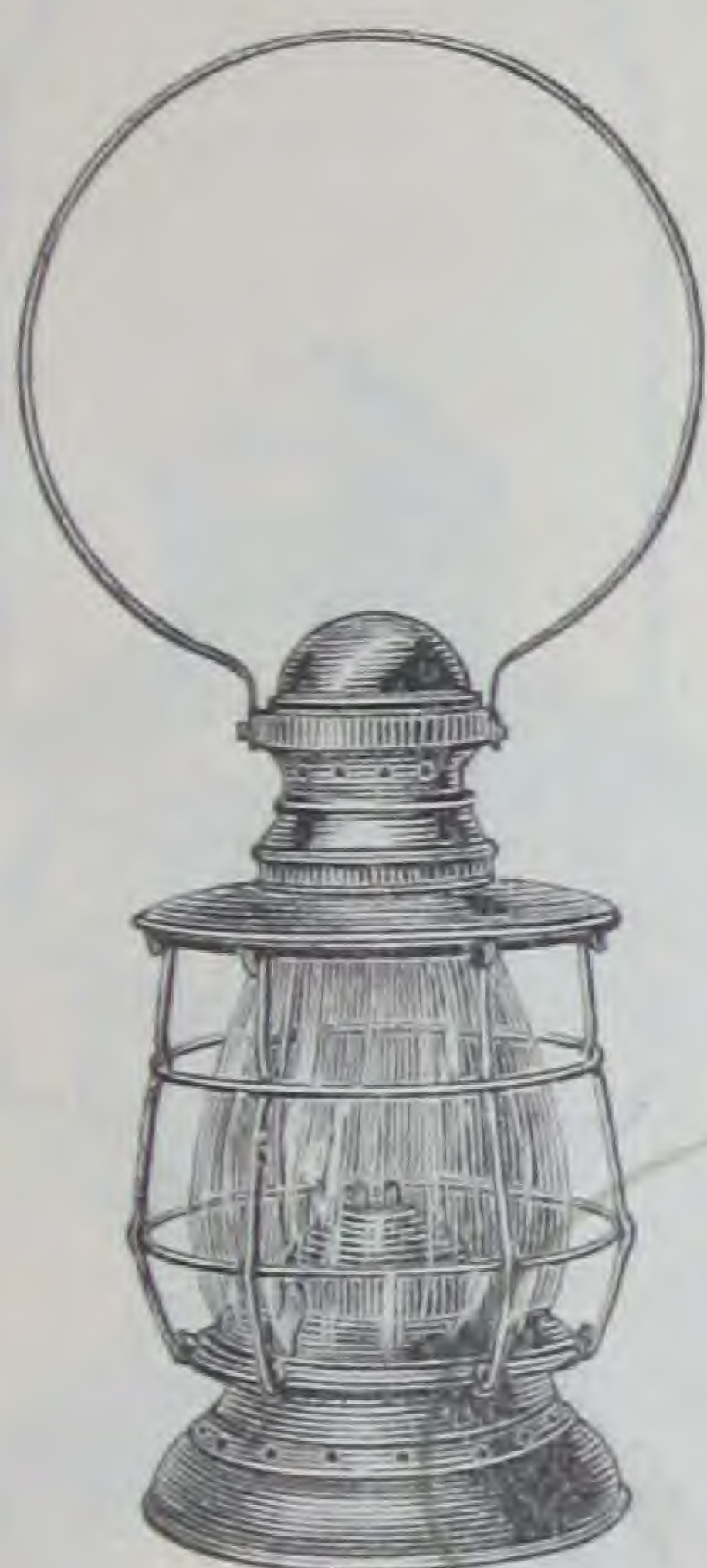
Price of No. 510 Cresting, per foot lineal.....	\$1 00
" Finials each	3 25



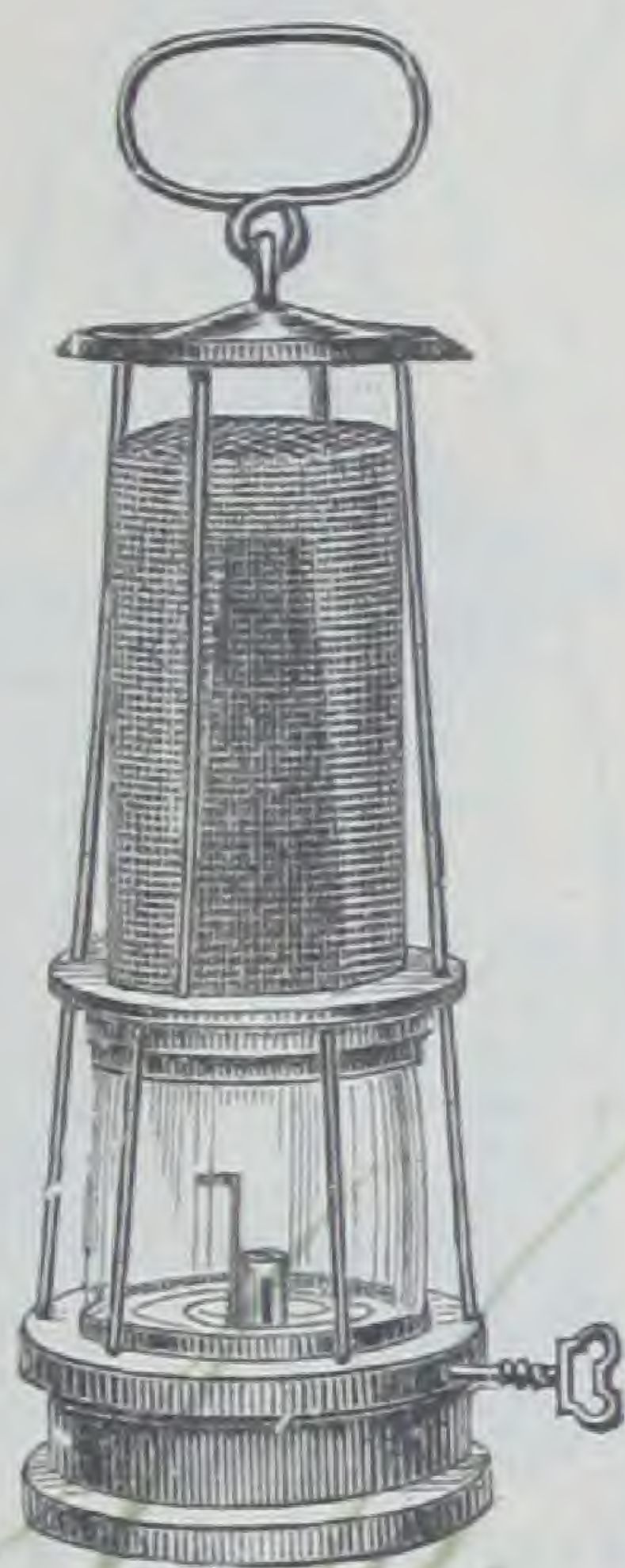
No. 511.

Price of No. 511 Cresting, per foot lineal.....	\$0 60
" Finials each	3 25

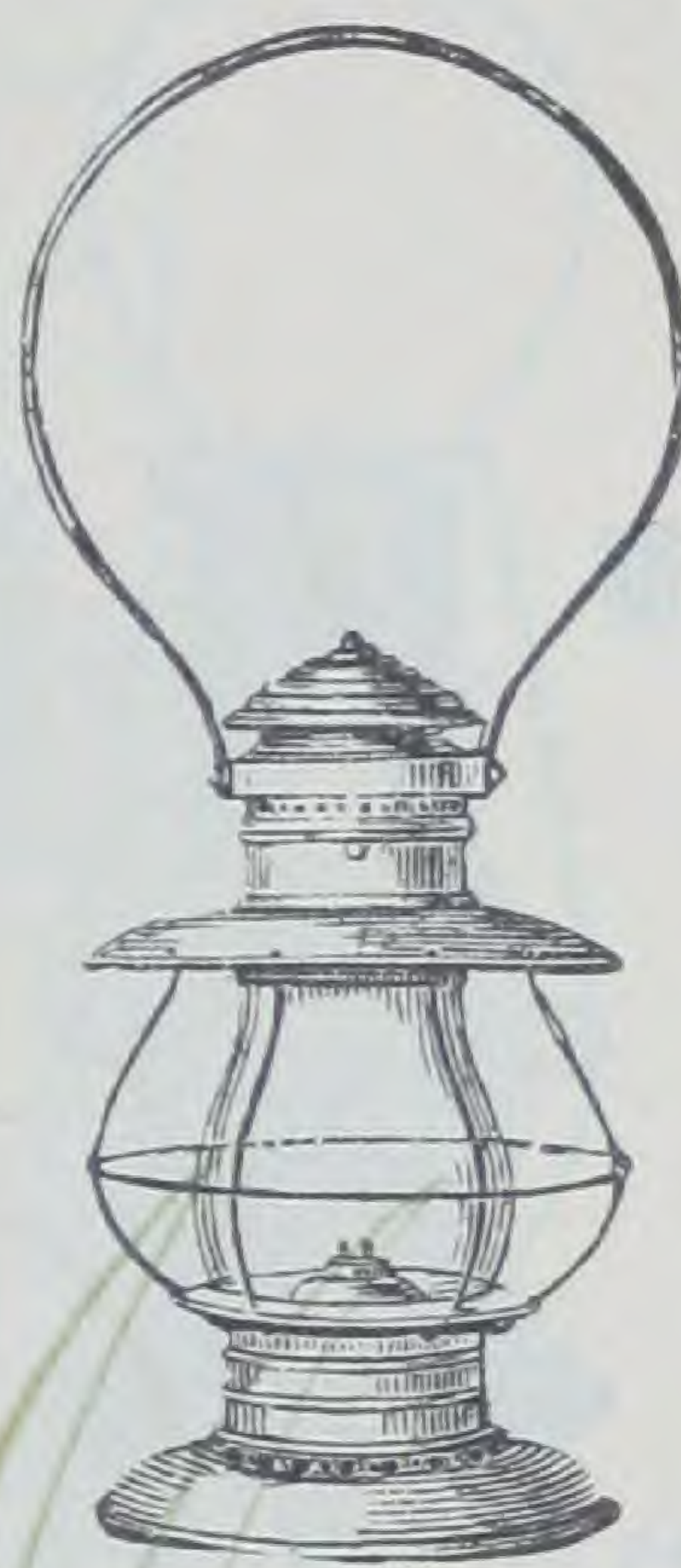
LANTERNS, SIGNALS AND GLASS



Star Brass
Conductor's Lantern.



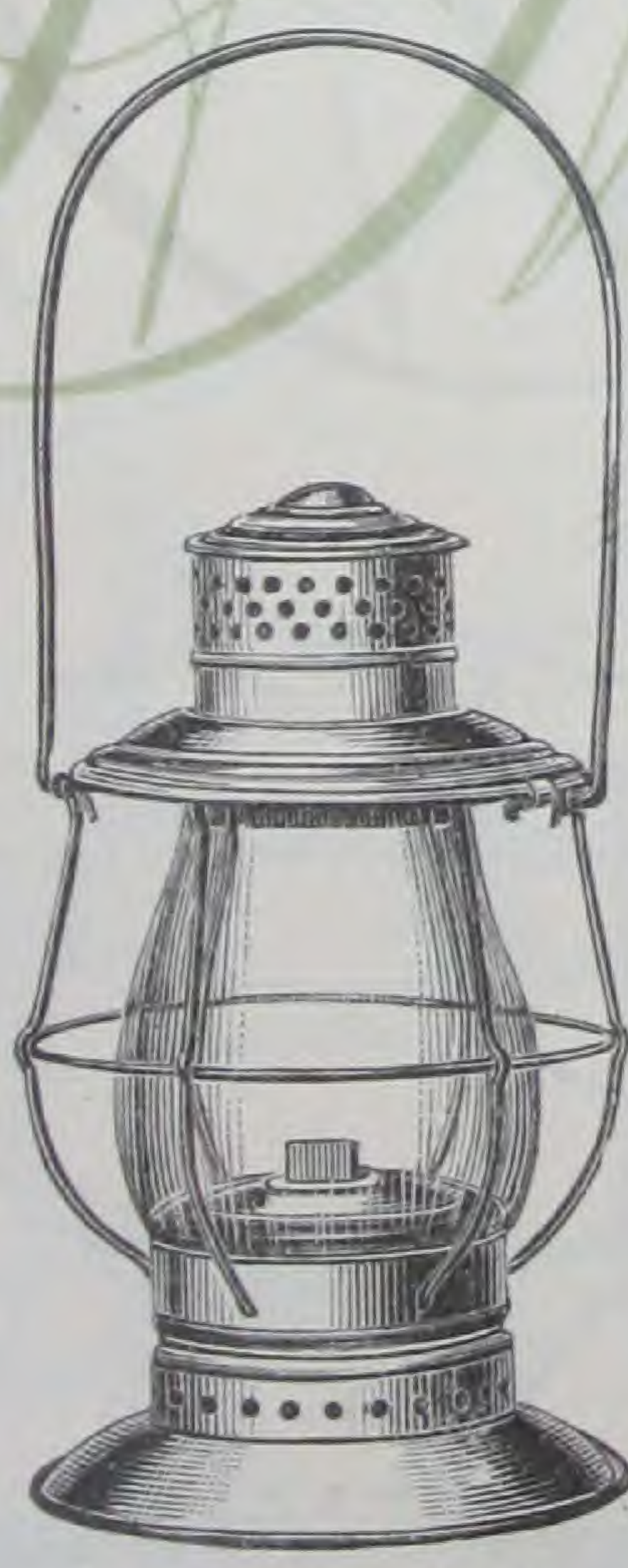
No. 1,
Miner's Safety Lamp.



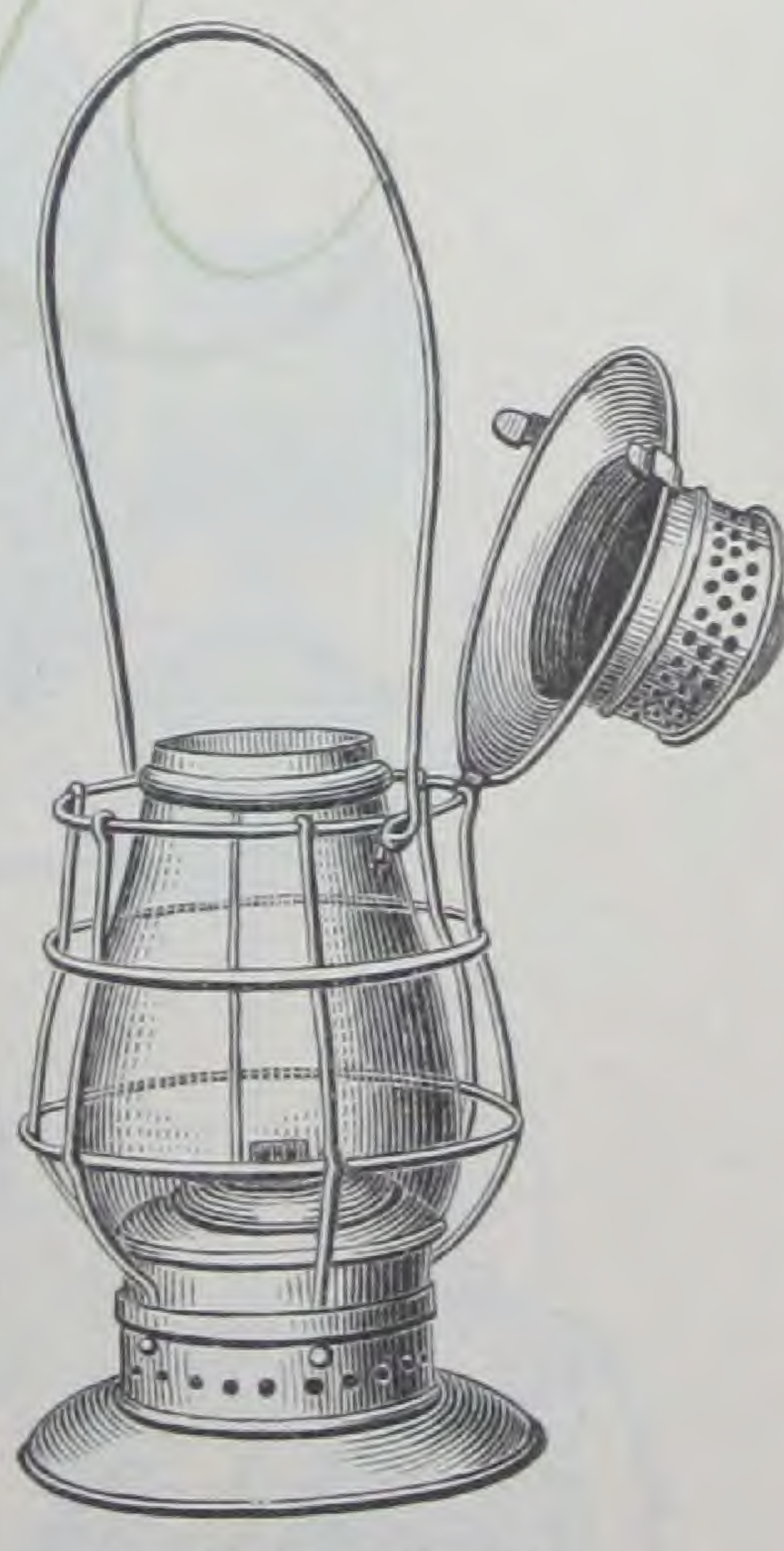
No. 5, Egg Brass
Conductor's Lantern.



No. 1, Star R. R.
Lantern,
with 12 lb. Flint Star
Glass, Bayonet
Catch.

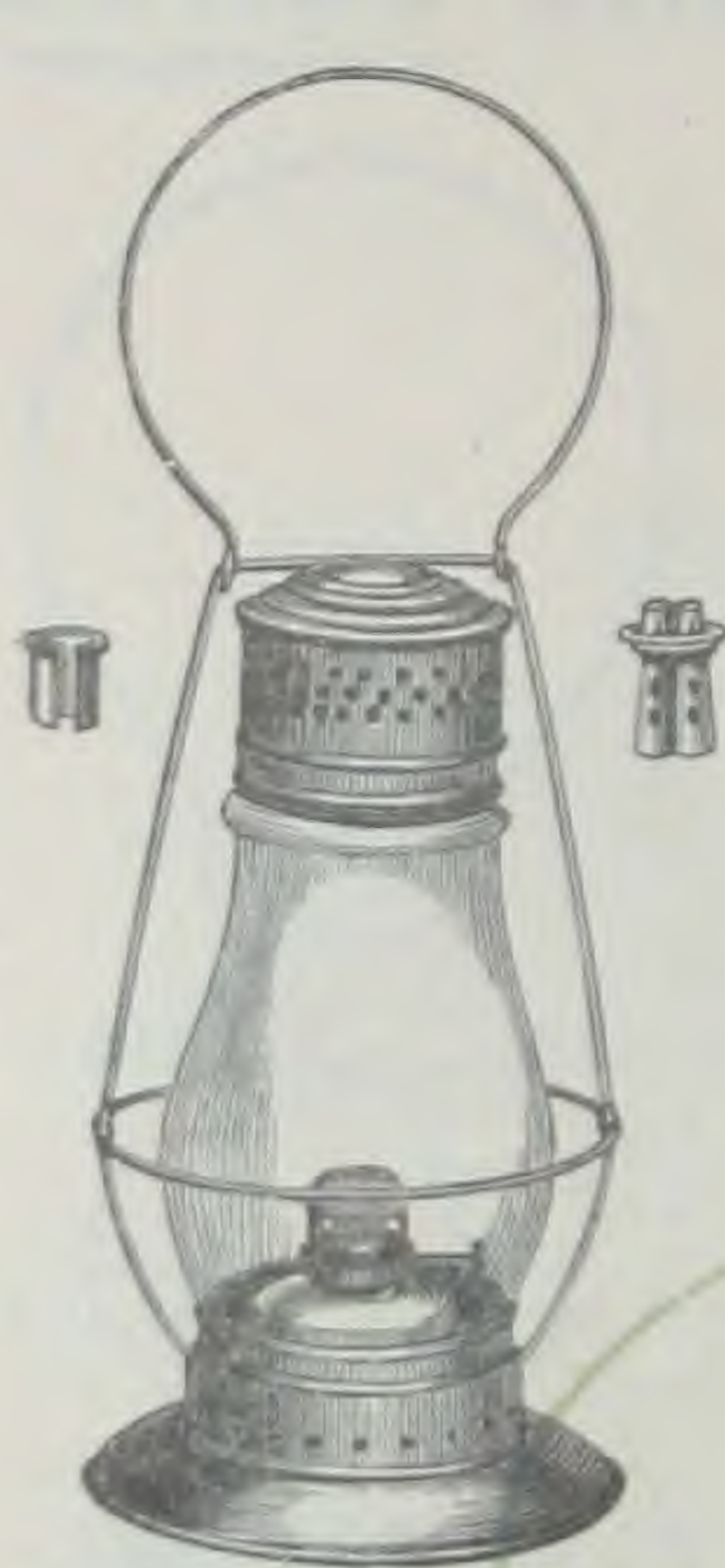


No. 2, Star R. R.
Lantern,
with 12 lb. Flint Star
Glass, Side Spring
Catch.

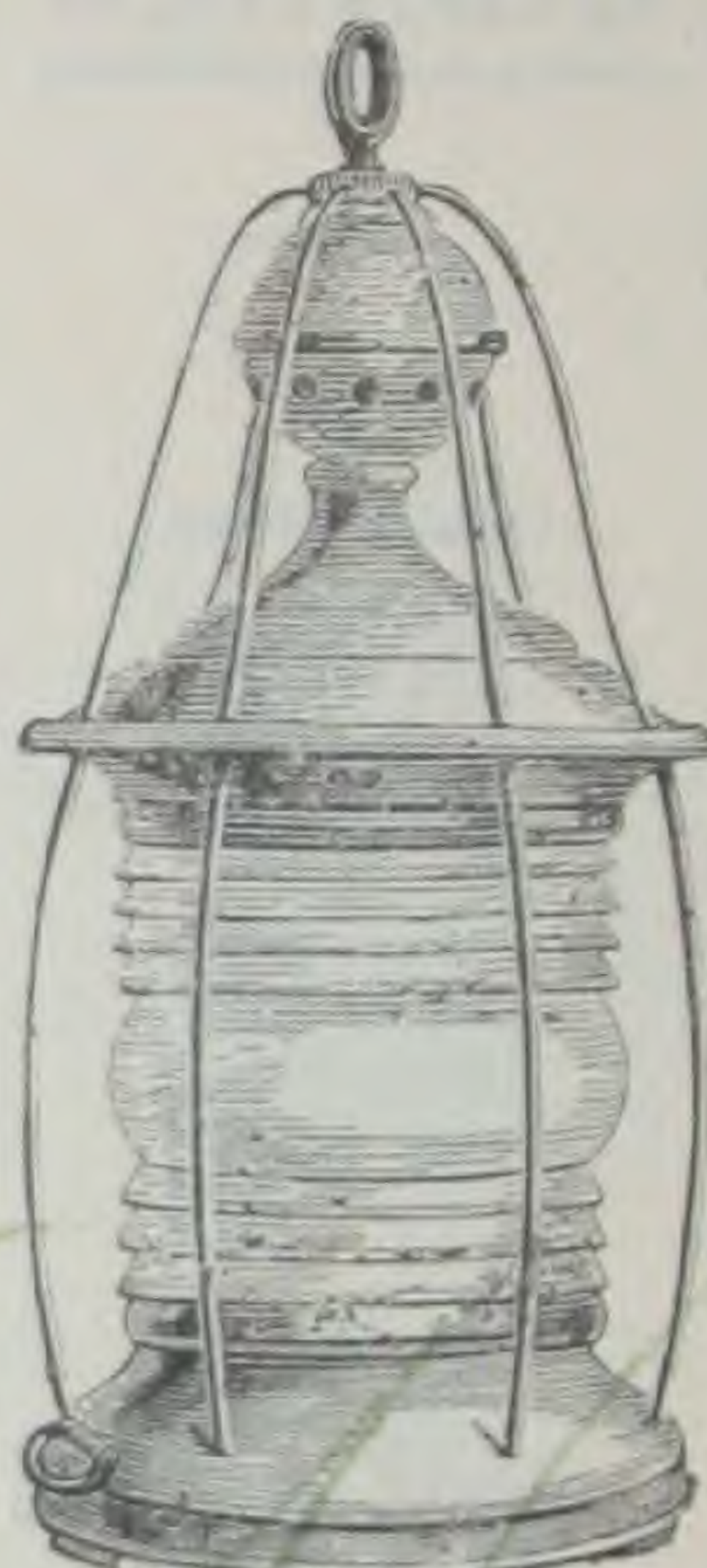


No. 3, Star R. R.
Lantern,
with 9 lb. Lime Star
Glass, Side Spring
Catch.

LANTERNS, SIGNALS AND GLASS.—Continued.



No. 31, Trade Lantern, Fresnel Mast-Head or
Three Burners, with
Regular Tubular Glass.

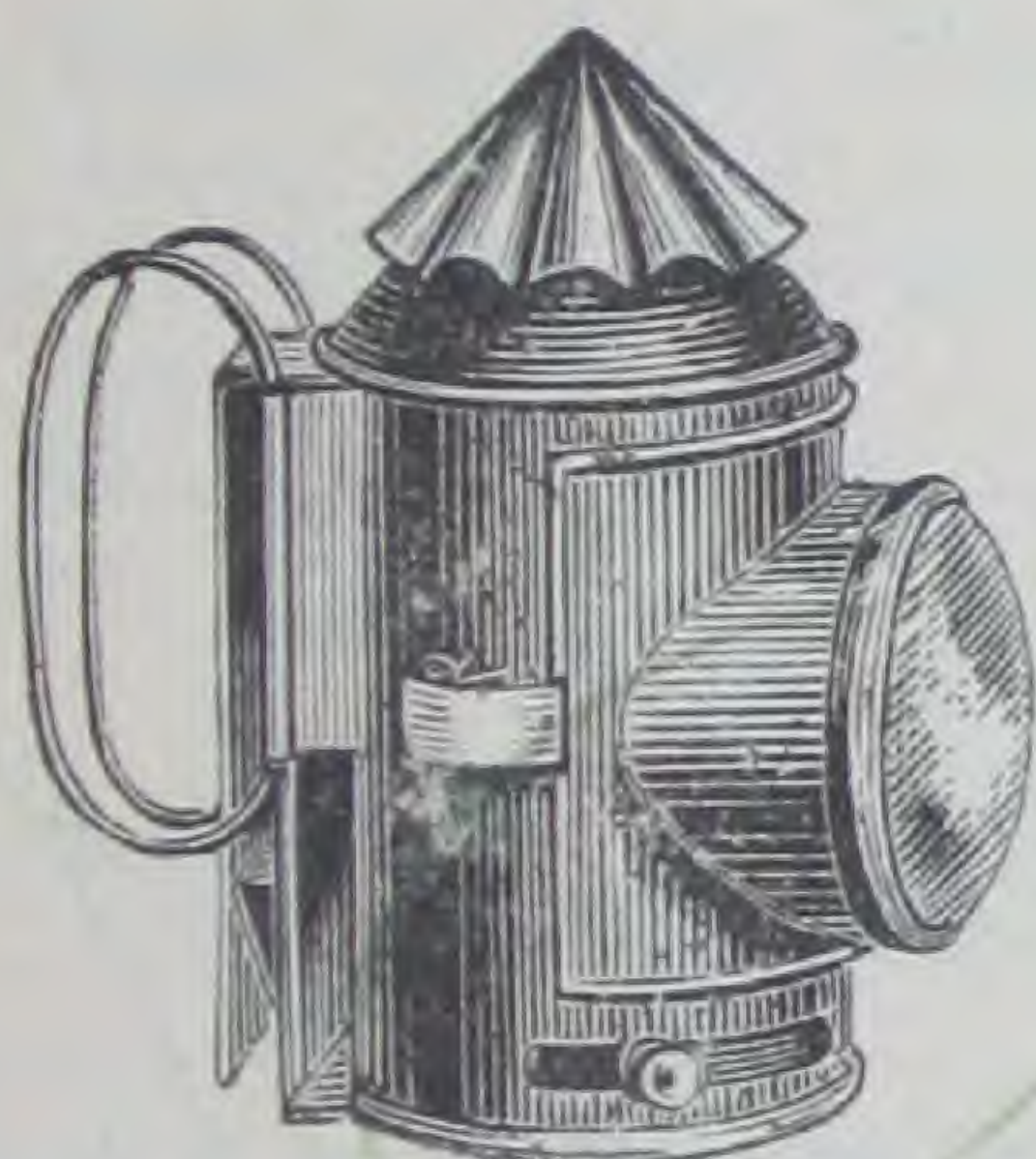


No. 39, R. R. Lantern.

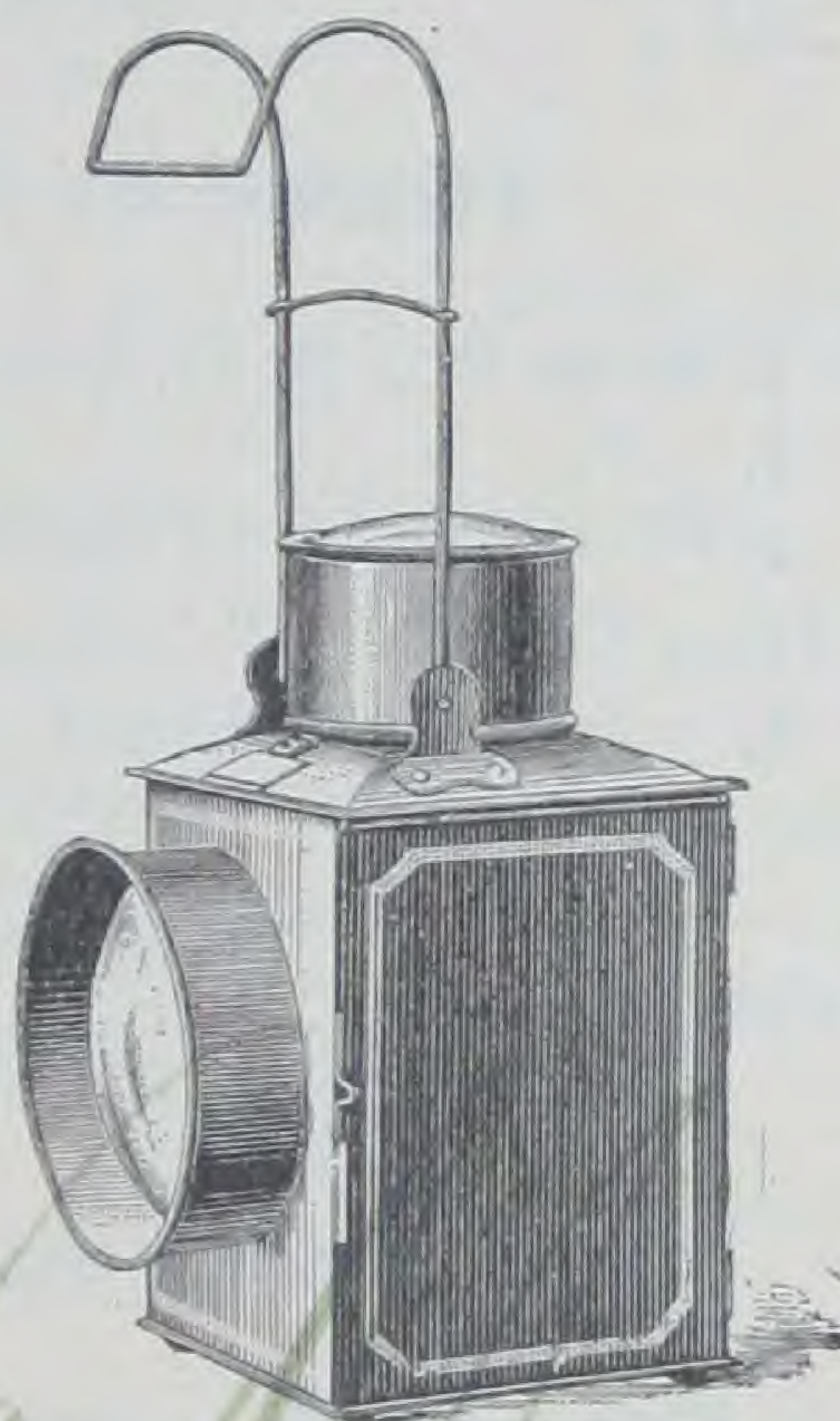


No. 4, Star Lantern,
with Candle Socket, Sperm and Kerosene Oil Burners, with Regular Tubular
Glass.

LANTERNS, SIGNALS AND GLASS.—Continued.



Japanned Police Lantern.



Single 5 inch Lens Train Signal.



Star Fire Department Lantern.
Extra Heavy.



N. Y. Fire Dept. Lantern.
12 Guards.

Price List of Railroad and Trade Lanterns, Signal Lights, Train Signals, Etc.

PRICES OF BRASS LANTERNS.

								Per doz.
No.	1,	Brass	Star	R. R.	Lanterns,	Flint	Glass, as per cut.	\$36 00
"	2,	"	"	"	"	"	"	30 00
"	3,	"	"	"	"	"	"	27 00
"	39,	"	"	"	"	"	"	36 00
"	5,	"	Egg	Conductor	"	"	"	57 00
Patent	"	Star	"	"	"	"	"	54 00
"	"	"	Fire	Dep't	"	"	"	75 00
Regular	"	N. Y.	"	"	"	"	"	48 00

PRICES OF TIN LANTERNS.

								Per doz.
No.	1,	Tin	Star	R. R., as per cut,	12 lb.	Flint	Glass	\$9 75
"	2,	"	"	"	12 lb.	"	"	8 75
"	3,	"	"	"	12 lb.	"	"	9 00
"	3,	"	"	"	9 lb.	Lime	Glass	8 50
"	39,	Regular	"	"	12 lb.	Flint	Glass	10 00
"	39,	"	"	"	12 lb.	"	1 Ring Guard	9 75
"	39,	"	"	side sp'g catch	12 lb.	"	2	9 25
"	39,	"	"	"	12 lb.	"	1	9 00
"	4,	Tin	Star	Trade, as per cut,	7 lb.	Lime	Glass, 3 Burners,	7 50
"	31,	"	"	"	7 lb.	Lime	Glass, 3 Burners,	5 00
For price of Star or No. 39 R. R. Ruby Lanterns, add to the above list								8 00
For price of Star or No. 39 R. R. Green Lanterns, add to the above list								6 00
For price of Star or No. 39 R. R. Blue Lanterns, add to the above list								5 50

PRICES OF SIGNALS.

							Each.
Fresnel	Mast-Head	Signals,	Brass,	as per cut,	Red		\$9 00
"	"	"	"	"	Green		8 50
"	"	"	"	"	White		7 00
"	"	"	Zinc,	"	Red		7 50
"	"	"	"	"	Green		7 00
"	"	"	"	"	White		5 50

PRICE LIST OF LANTERNS, Etc.—Continued.

PRICES OF TRAIN SIGNALS.

5 inch Ruby Semaphore, single.....	\$7 50 each.
“ “ “ double	9 50 “

PRICES OF POLICE LANTERNS.

No. 1, Japanned, as per cut.....	\$8 25 per doz.
No. 2, “ “ “	7 00 “

PRICES OF MINERS' SAFETY LAMPS, Etc.

No. 1, Brass Mounted, as per cut (English Regulation), per dozen	\$72 00
Regulation Safety Wire Cloth for Miners' Lamps, 9 in. wide, per lineal foot.....	40
Extra Wire Cloth Cones, complete, per dozen	6 00

PRICES OF EXTRAS.

Extra Guards on Brass Lanterns.....	per doz., \$0 50 net cash.
“ “ “ Tin “	25 “
Kerosene Oil Burners	1 00 “
Engraving name upon glass, <i>plain</i> letters, each,	1 00 “
“ “ “ “ “ in wreath, “	1 50 “
“ “ “ “ <i>fancy</i> “ “	2 00 “
“ initials “ “ <i>plain</i>	50 “
“ “ “ “ <i>fancy</i>	75 “
Nickel Plating Conductor Lanterns	2 00 “

PRICES OF GLASS.

Ruby Fresnel—for Signals	\$2 75 each.
Green “ “	2 25 “
White “ “	1 75 “
Ruby Star or No. 39 Lantern, 12 lb.....	8 00 per doz.
Green “ “ “ “	6 00 “
Blue “ “ “ “	5 50 “
White “ “ “ “ <i>Flint</i>	2 00 “
“ “ “ “ <i>Lime</i>	1 50 “
Conductor Glass, White	5 00 “
“ “ Half Red.....	30 00 “
“ “ “ Green	27 00 “
“ “ “ Blue	24 00 “
Tubular Glass.....	85 “
Miner's Safety Lamp Glass	6 00 “

Lanterns and Glass are packed in boxes, barrels or hogsheads.
 Packages, Bbls., 25 cents; Tierces, \$1.00; Hhds., \$1.50.
 Boxes, holding 1 dozen, 25 cts.; holding half dozen, 15 cts.
 No allowance for breakage.

S and M



Hand M